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# FEEDING STUFFS REPORT

1918

JAMES W. KELLOGG, Chief Chemist

BUREAU OF CHEMISTRY



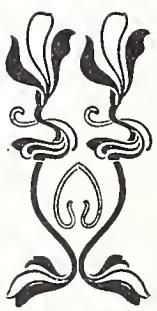
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## LETTER OF TRANSMITTAL.

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Department of Agriculture.

Bureau of Chemistry.

Harrisburg, Pa., April 9, 1919.

Hon. Fred Rasmussen,  
Secretary of Agriculture,  
Harrisburg, Pa.

Dear Sir: I have the honor to submit herewith for your approval a report of the results of the feeding stuffs inspection work accomplished during 1918. It shows the chemical analyses and microscopical examinations of the samples obtained by Special Agents of the Department during the year, a list of the brands registered, together with guarantees claimed and other data believed to be of value.

It is recommended that this report be published in bulletin form for distribution.

Very respectfully,

JAMES W. KELLOGG,  
Chief Chemist.



BULLETIN NO. 327

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# FEEDING STUFFS REPORT

1918

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## INTRODUCTION.

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During the period covered by this report, Special Agents of the Department visited 347 towns and cities in 60 counties of the State and secured and submitted for analysis and examination 1,091 official samples of feeding stuffs in accordance with the requirements of the feeding stuffs law. Many localities were visited where the manner of labeling and branding was inspected and where, in order to avoid duplication of work, no samples were selected. In addition to the official samples 221 special samples of feeds were received from residents of the State which were analyzed and reports submitted, as required. Several of the special samples were examined for the presence of possible adulterants and the absence of claimed ingredients. All of the official samples were analyzed for protein, fat and fiber and examined microscopically to determine whether or not the guarantees claimed would be sustained and for the presence or absence of foreign materials or prohibited by-products. From time to time as the work was completed reports were submitted to the manufacturers and to the dealers or selling agents from whom they were obtained.

During the year registrations were received from 547 manufacturers and importers covering 2,435 different brands and kinds of feeding stuffs. A number of registrations were submitted and refused as the brands included were not shown to be in accordance with the requirements.

The official samples did not include all the brands and kinds of Feeds registered with the Department during the year, as will be noted, as many were not sold in great quantities and others not offered for sale as they were registered for the purpose of complying with requirements in case orders were received and shipments made.

A number of brands of feeds are included, however, which were not registered, several of which were being sold contrary to requirements owing to the presence of prohibited materials such as whole weed seeds and where feeds, including oat hulls and cottonseed hulls, contained crude fiber in excess of the amounts permitted.

The general character of the feeds sold in the State as represented by the samples examined, was good and better than was anticipated owing to conditions prevailing during the war period. The restrictions placed upon the feeding stuffs industry by the United States Food Administration made it difficult for certain cereals and by-products to be obtained thereby necessitating the elimination of or reduction in the amount of such ingredients in mixed feeds, causing many re-registrations to be submitted and many corrections in branding and labeling for list of ingredients and guarantees and the violations of minor character noted were largely caused by these conditions. The deficiencies found where the samples failed to meet their guarantees compared with those of 1917 were doubled in the case of protein and fat and in fat alone and were about one-half as numerous in the number of deficiencies in protein alone. Two-thirds of the samples selected during the year were mixed feeds and 10 per cent. of this number were found to vary in their composition from the ingredients claimed. An improvement in the method of guaranteeing was noted as 88, less than during 1917, or only 8 per cent. of the total number of samples were found with minimum and maximum guarantees for protein, fat and fiber and of this number, 46 failed to meet the higher guarantees for protein. The number of samples and brands of cottonseed meals was less than the number selected during the previous year and 7 brands were correctly listed as cottonseed feeds which in 1917 were improperly branded and labeled and sold as meals. These brands included those where the protein content had been lowered by increasing the amounts of cottonseed hulls placing them in the class of feeds which in the cases noted were found being properly labeled during the period covered by this report. As a result of the enforcement of the law, especially with respect to misbranding and deficiencies, one cottonseed meal importing firm has discontinued business and none of the samples from this firm which caused considerable trouble during previous years were obtained during the year. In the case of the molasses dairy feeds, one-third of the number were found to contain small amounts of whole weed seeds and several were high in fiber. In the samples of stock, horse and mule feeds, one-third of the number of samples analyzed were found to contain oat hulls showing crude fiber in excess of the amount permitted and a few of these were found mouldy and in bad condition. In the case of poultry foods there is considerable room for improvement as one-half the number examined contained small amounts of weed seeds and 17 contained large amounts

of whole weed seeds ranging from 2½ per cent. to 18 per cent. Several of these foods also were not in prime condition being mouldy and damaged largely resulting from the presence of inferior grades of corn. This condition was also found to exist in a number of the miscellaneous chop feeds. The number of brands of wheat offal feeds received for analysis was less than during the previous year which condition was due to restrictions in the milling of wheat flour and no samples of low grade flour were found being sold. A reduction in the sales of distillery and brewery by-products was also noted as a less number of samples of corn distillers dried grains and brewers dried grains were received. Samples of dried distiller's grains largely from rye and malt sprouts were not selected for analysis indicating the scarcity of these products. Two new feeds were placed on the market being by-products from the manufacture of corn flour and barley flour for war bread and sold as corn meal by-product and barley mixed feed.

The retail selling prices compared with those prevailing in 1917 increased from 4 to 41 per cent. for the products sold during the year.

The following pages include a list of the feeding stuffs definitions adopted by the Association of Feed Control Officials, a list of the firms and the number of brands of feeds registered during 1918, tables showing counties visited, classification of samples analyzed, deficiencies and average analyses and retail prices, a discussion of the results of analysis of each class of feed and a large table which includes in detail the chemical analyses and microscopical examinations of each sample together with the brand names, name and address of manufacturers or importers and dealers from whom samples were obtained and guarantees found upon sacks or attached cards.

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#### ACKNOWLEDGMENTS.

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For the assistance of many courtesies received from Hon. Charles E. Patton, the Secretary of Agriculture, during the period covered by this report and from the General Agent, Hon. G. G. Hutchinson, many thanks are extended and an acknowledgment is herewith made of their co-operation in conducting the feeding stuffs inspection work during the year. Thanks are also extended to each member of the Bureau staff for their co-operation and performance of assigned duties. The following Assistants took part in the work: V. B. Hausknecht, H. E. Gensler, J. E. Shull, William Weber, G. J. Kuhlman, Jr., Frank B. Williams, C. R. Engle, W. E. Huber, P. H. Fairlamb, H. L. Wible and W. W. Cassel.

The microscopic examination of each sample was made by H. E. Gensler who also had charge of the reception of samples and making check determinations where required. The supervision of the sampling work was in charge of G. G. Hutchison and much credit is due to the Special Agents, John F. St. Clair and W. John Stitel, for the able manner in which they carried on the field work.

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## DEFINITIONS.

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Definitions for the most important and well known feeding stuffs, especially the by-products which are used in preparing mixed feeds, have been adopted by the Association of Feed Control Officials at their annual meetings. Since the last publication of these definitions additional ones have been adopted as final for several products and tentative definitions have been agreed upon for a few others. These definitions are of value in arriving at a correct understanding of the products included and of assistance in the correct branding of these products when sold separately as feeds and in fixing proper names for them when used as ingredients in mixed feeds. They represent the conclusion of the Officials of the United States who have made a study of the manufacturing processes and were only adopted after careful consideration. Under the requirements of the Feeding Stuff's Law the definition for "Good" cottonseed meal cannot be accepted for shipments in Pennsylvania. In order that the complete list may be available for reference it is included in this report as follows:

*Meal* is the clean, sound, ground product of the entire grain, cereal or seed which it purports to represent.

*Chop* is a ground or chopped feed composed of one or more different cereals or by-products thereof. If it bears a name descriptive of the kind of cereals, it must be made exclusively of the entire grains of those cereals.

*Screenings* are the smaller, imperfect grains, weed seeds and other foreign material having feeding value, separated in cleaning the grain.

*Cottonseed Meal* is a product of the cottonseed only, composed principally of the kernel with such portion of the hull as is necessary in the manufacture of oil; provided that nothing shall be recognized as cottonseed meal that does not conform to the foregoing definition and that does not contain at least 36 per cent. of protein.

*Choice Cottonseed Meal* must be finely ground, not necessarily bolted, perfectly sound and sweet in odor, yellow, free from excess of lint, and must contain at least 41 per cent. of protein.

*Prime Cottonseed Meal* must be finely ground, not necessarily bolted, of sweet odor, reasonably bright in color, yellow, not brown or reddish, free from excess of lint, and must contain at least 38.6 per cent. of protein.

*Good Cottonseed Meal* must be finely ground, not necessarily bolted, of sweet odor, reasonably bright in color, and must contain at least 36 per cent. of protein.

*Cottonseed Feed* is a mixture of cottonseed meal and cottonseed hulls, containing less than 36 per cent. of protein.

*Cold Pressed Cottonseed* is the product resulting from subjecting the whole undecorticated cottonseed to the cold pressure process for the extraction of oil, and includes the entire cottonseed less the oil extracted.

*Ground Cold Pressed Cottonseed* is the ground product resulting from subjecting the whole undecorticated cottonseed to the cold pressure process for the extraction of oil, and includes the entire ground cottonseed less the oil extracted.

*Linseed Meal* is the ground product obtained after extraction of part of the oil from ground flaxseed screened and cleaned of weed seeds and other foreign materials by the most improved commercial processes, provided that the final products shall not contain over six per cent. of weed seeds and other foreign materials and provided further that no portion of the stated six per cent. of weed seeds and other foreign materials shall be deliberately added.

*Oil Meal* is the ground product obtained after the extraction of part of the oil by crushing, cooking and hydraulic pressure, or by crushing, heating and the use of solvents from seeds which have been screened and cleaned of weed seeds and other foreign materials by the most improved commercial processes. When used alone the term "Oil Meal" shall be understood to designate linseed meal as defined. When used to cover any other product the name of the seed from which it is obtained shall be prefixed to the words "oil meal."

*Old Process Oil Meal* is the ground product obtained after extraction of part of the oil by crushing, cooking and hydraulic pressure from seeds screened and cleaned of weed seeds and other foreign materials by the most improved commercial processes. When used alone the term "Old Process Oil Meal" shall be understood to designate linseed meal as defined, made by the old process. When used to cover any other product the name of the seed from which it is obtained shall be prefixed to "old process oil meal."

*New Process Oil Meal* is the ground product obtained after extraction of part of the oil by crushing, heating and the use of solvents from seeds screened and cleaned of weed seeds and other foreign materials by the most improved commercial processes. When used alone the term "New Process Oil Meal" shall be understood to designate linseed meal as defined, made by the new process. When used to cover any other product the name of the seed from which it is obtained shall be prefixed to "new process oil meal."

*Ground Flaxseed or Flaxseed Meal* is the product obtained by grinding flaxseed which has been screened and cleaned of weed seeds and other foreign materials by the most improved commercial processes, provided that the final product shall not contain over four per cent. of weed seeds and other foreign materials, and provided further that no portion of the stated four per cent. of weed seeds and other foreign materials shall be deliberately added.

*Unscreened Flaxseed Oil Feed* is the ground product obtained after extraction of part of the oil from unscreened flaxseed by crushing, cooking and hydraulic pressure, or by crushing, heating and the use of solvents. When sold without grinding the unground product shall be designated as "unscreened flaxseed oil feed cake."

*Ingredients of Unscreened Flaxseed Oil Feed*—Ground cake from partially extracted flaxseed and foreign seeds (wheat, wild buckwheat, pigeon grass, wild mustard, etc.)

*Screenings Oil Feed* is the ground product obtained after extraction of part of the oil by crushing, cooking and hydraulic pressure, or by crushing, beating and the use of solvents from the smaller imperfect grains, weed seeds and other foreign materials having feeding value separated in cleaning the grain. The name of the grain from which the screenings are separated shall be prefixed to "screenings oil feed."

*Flax Plant By-Product* is that portion of the flax plant remaining after the separation of the seed, the bast fiber and a portion of the sibives, and consists of flax sibives, flax pods, broken and immature flax seeds, and the cortical tissue of the stem.

*Oil Cake* is the residual cake obtained after extraction of part of the oil by crushing, cooking and hydraulic pressure from seeds screened and cleaned of weed seeds and other foreign materials by the most improved commercial processes. When used alone the term "oil cake" shall be understood to designate the product obtained from partially extracted, screened and cleaned flaxseed. When used to cover any other product, the name of the seed from which it is obtained shall be prefixed to "oil cake."

*Ground Oil Cake* is the product obtained by grinding oil cake. When used alone, the term "ground oil cake" shall be understood to designate the product obtained from partially extracted, screened and cleaned flaxseed. When used to cover any other product the name of the seed from which it is obtained shall be prefixed to "ground oil cake."

*Palm Kernel Oil Meal* is the ground residue from the extraction of part of the oil by pressure or solvents from the kernel of the fruit of *Elaeis guineensis* or *Elaeis malanococca*.

*Ivory Nut Meal* is ground ivory nuts.

*Peanut Oil Cake* is the residue after the extraction of part of the oil by pressure or solvents from peanut kernels.

*Peanut Oil Meal* is the ground residue after the extraction of part of the oil from peanut kernels.

*Unhulled Peanut Oil Feed* is the ground residue obtained after extraction of part of the oil from whole peanuts, and the ingredients shall be designated as "Peanut Meal and Hulls."

*Distillers' Dried Grains* are the dried residue from cereals obtained in the manufacture of alcohol and distilled liquors. The product shall bear the designation indicating the cereal predominating.

*Yeast or Vinegar Dried Grains* are the properly dried residue from the mixture of cereals, malt and malt sprouts (sometimes cottonseed meal) obtained in the manufacture of yeast or vinegar, and consists of corn or corn and rye from which most of the starch has been extracted, together with malt added during the manufacturing process to change the starch to sugars, and malt sprouts (sometimes cottonseed meal) added during the manufacturing process to aid in filtering the residue from the wort and serve as a source of food supply for the yeast.

*Brewers' Dried Grains* are the properly dried residue from cereals obtained in the manufacture of beer.

*Malt Sprouts* are the sprouts of the barley grain. If the sprouts are derived from any other malted cereal, the source must be designated.

*Corn Bran* is the outer coating of the corn kernel.

*Corn Feed Meal* is the by-product obtained in the manufacture of cracked corn, with or without aspiration products added to the siftings, and is also the by-product obtained in the manufacture of table meal from the whole grain by the non-degerminating process.

*Corn Germ Meal* is a product in the manufacture of starch, glucose and other corn products, and is the germ layer from which a part of the corn oil has been extracted.

*Grits* are the hard, flinty portions of Indian corn, without hulls and germs.

*Corn Gluten Meal* is that part of commercial shelled corn that remains after the separation of the larger part of the starch, the germ and the bran, by the processes employed in the manufacture of cornstarch and glucose. It may or may not contain corn solubles.

*Corn Gluten Feed* is that portion of commercial shelled corn that remains after the separation of the larger part of the starch and the germ by the processes employed in the manufacture of cornstarch and glucose. It may or may not contain corn solubles.

*Hominy Feed, Hominy Meal or Hominy Chop* is the kiln-dried mixture of the mill run bran coating, the mill run germ, with or without a partial extraction of the oil and a part of the starchy portion of the white corn kernel obtained in the manufacture of hominy, hominy grits and corn meal by the degerminating process.

*Yellow Hominy Feed, Yellow Hominy Meal or Yellow Hominy Chop* is a kiln-dried mixture of the mill run bran coating, the mill run germ, with or without a partial extraction of the oil and a part of the starchy portion of the yellow corn kernel obtained in the manufacture of yellow hominy grits and yellow corn meal by the degerminating process.

*Wheat Bran* is the coarse outer coatings of the wheat berry obtained in the usual commercial milling process from wheat that has been cleaned and scoured.

*Shorts or Standard Middlings* are the fine particles of the outer and inner bran separated from bran and white middlings.

*Wheat White Middlings or White Middlings* are that part of the offal of wheat intermediate between shorts or standard middlings and red dog.

*Shipstuff or Wheat Mixed Feed* is a mixture of the products other than the flour obtained from the milling of the wheat berry.

*Red Dog* is a low grade wheat flour containing the finer particles of bran.

*Wheat Bran with Mill Run Screenings* is pure wheat bran plus the screenings which were separated from the wheat used in preparing said bran.

*Wheat Bran with Screenings not Exceeding Mill Run* is either wheat bran with the whole mill run of screenings or wheat bran with a portion of the mill run of screenings, provided that such portion is not an inferior portion thereof.

*Oat Groats* are the kernels of the oat berry.

*Oat Hulls* are the outer chaffy coverings of the oat grain.

*Oat Middlings* are the floury portions of the oat groat obtained in the milling of rolled oats.

*Oat Shorts* are the covering of the oat grain lying immediately inside the hull, being a fuzzy material carrying with it considerable portions of the fine floury part of the groat obtained in the milling of rolled oats.

*Clipped Oat By-Product* is the resultant by-product obtained in the manufacture of clipped oats. It may contain light chaffy material broken from the ends of the hulls, empty hulls, light, immature oats and dust. It must not contain an excessive amount of oat hulls.

*Rice Bran* is the cuticle beneath the hull.

*Rice Hulls* are the outer chaffy coverings of the rice grain.

*Rice Polish* is the finely powdered material obtained in polishing the kernel.

*Buckwheat Shorts or Buckwheat Middlings* are that portion of the buckwheat grain immediately inside of the hull after separation from the flour.

*Alfalfa Meal* is the entire alfalfa hay ground, and does not contain an admixture of ground alfalfa straw or other foreign materials.

*Blood Meal* is ground dried blood.

*Cracklings* are the residue after partially extracting the fats and oils from the animal tissue. If they bear a name descriptive of their kind, composition or origin, they must correspond thereto.

*Digestor Tankage* is the residue from animal tissue, exclusive of hoof and horn, specially prepared for feeding purposes by tanking under live steam, drying under

high heat, and suitable grinding. If it contains more than 10 per cent. of phosphoric acid ( $P_2O_5$ ) it must be designated "Digester Meat and Bone Tankage."

*Meat Scrap and Meat Meal* are the ground residues from animal tissues exclusive of hoof and horn. If they contain more than 10 per cent. of phosphoric acid ( $P_2O_5$ ) they must be designated "Meat and Bone Scrap and Meat and Bone Meal." If they bear a name descriptive of their kind, composition or origin, they must correspond thereto.

\**Barley Feed* is the entire by-product resulting from the manufacture of pearl barley made from clean barley.

\**Barley Mixed Feed* is the entire offal from the milling of barley flour from clean barley and is composed of barley hulls and barley middlings.

\**Dried Beet Pulp* is the material obtained by drying the residue from sugar beets which have been extracted in the process of manufacturing sugar and shall not contain excessive amounts of crowns, tails or sand.

\**Cocoanut Oil Meal* is the ground residue from the extraction of part of the oil from the meat of the cocoanut.

\**Wheat Bran* consists of the coarse outer coatings of the kernel obtained in the usual commercial process of milling from wheat that has been cleaned and scoured.

\**Shorts or Standard Middlings* consists mostly of the fine particles of bran and germ and contains very little of fibrous offal obtained from the "tail of the mill."

\**Gray (or total) Shorts* consists of the fine particles of the outer bran, the inner or "Bee-wing" bran, the germ and the offal or fibrous material, obtained in the last reductions in milling.

\**White Shorts or White Middlings* consists of a smaller portion of the fine bran particles and the germ and a much greater portion of the fibrous offal from the "tail of the mill."

\**Red Dog* consists of a mixture of low-grade flour, fine particles of bran and the fibrous offal from the "tail of the mill."

\**Wheat Mixed Feed* consists of pure wheat bran and the gray or total shorts or middlings combined in the proportions obtained in the usual process of commercial milling.

\**Wheat Bran and Standard Middlings* consists of the two commodities as defined above mixed in the proportions obtained in the usual process of commercial milling.

(NOTE—If to any of the foregoing brands of feed there should be added screenings, or scourings, as hereinafter defined, either ground or unground, bolted or unbolted, such brand shall be so registered, labeled and sold as clearly to indicate this fact. The word "Screenings" or "Scourings" as the case may be, shall appear as a part of the name or brand and shall be printed in the same size and face of type as the remainder of the brand name.)

\**Screenings* consists of the smaller imperfect grains, weed seeds and other foreign materials having feeding value separated in cleaning the grain.

\**Scourings* consists of such portions of the enticle, brush, white caps, dust, smut, and other materials as are separated from the grain in the usual commercial process of scouring.

## REGISTRATIONS.

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At the beginning of the year and subsequently during 1918, registrations for feeding stuffs were received from 547 manufacturing and importing or jobbing firms covering 2,435 brands and kinds of feeds. In several cases registrations were submitted by importers and dealers for brands which were registered by the original manufacturers and these feeds were listed and credited to such companies. There were a number of applications made for registration which could not be accepted for the reason that they failed to meet the requirements. They included feeds containing oat hulls and flax plant refuse showing a fiber content in excess of the amount permitted and a few brands which contained peanut hulls and rice hulls which products are prohibited from being included in feeds sold in the

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\*Tentative Definitions.

State. A few samples representing the brands, registrations for which were refused, were obtained and legal action was taken where violations were found to exist. Those samples representing brands not registered are indicated in table IV showing results of analyses by an asterisk (\*) including also the pure wheat and rye bran and middlings and whole grain feeds for which registration is not required.

All brands and kinds of feeds with the exception of the few referred to, are required to be registered with the Department at the beginning of each calendar year and may be submitted at any time during the year. No charge is made for registrations, no tax tags or stamps are required and no licenses are issued. The names of the firms from whom registrations were received during 1918, together with the brands and kinds included, are as follows:

#### FEEDING STUFFS REGISTERED FOR 1918.

Acme-Evans Co., Indianapolis, Ind.

- Acme Alfalfa Molasses Grain Feed,
- Acme Bran,
- Acme Chick Feed,
- Acme Cracked Corn,
- Acme Dairy,
- Acme Dry Mash,
- Acme Farm Feed,
- Acme Feed,
- Acme Horse & Mule Feed,
- Acme Middlings,
- Acme Scratch Feed,
- Acme Stock Feed,
- E. Z. Scratch Feed,
- Homlik Feed.

Acme Manufacturing Co., Wheaton, Ill.

- Acme Calf Meal,
- Acme Pig Meal.

Acme Milling Co., Olean, N. Y.

- Acme Feed,
- Dry Mash,
- Wheat Bran,
- Yellow Corn Feed Meal "S."

Akron Feed & Milling Co., Akron, Ohio.

- C. O. & B. Stock Feed,
- Portage Corn & Oats Chop,
- Portage Fancy Middlings,
- Portage Scratch Feed,
- Portage Stock Feed,
- Portage Yellow Feed Meal,
- Yellow Hominy Feed.

Alabama Black Belt Co., Montgomery, Ala.  
Velvet Bean & Pod Feed.

Alfocorn Milling Co., East St. Louis, Ill.

- Alfa-Oats Horse & Mule Feed,
- Alfocorn Dairy Feed,
- Alfocorn Hen Feed,
- Alfocorn Hog Meal,
- Alfocorn Poultry Mash,
- Alfocorn Special H. & M. Feed.
- Ambrosia H. & M. Feed,
- Butter-Ball Dairy Feed,
- Full Pail Dairy Feed,
- Leader Horse & Mule Feed,
- X-tra Oats Horse & Mule Feed.

Allen Milling Co., Niagara Falls, N. Y.  
 Allen's Full-Nest Mash for Layers,  
 Allen's Full-Nest Nutro Chick Mash.

Allen & Wheeler Co., The, Troy, Ohio.  
 Trojan Bran,  
 Trojan Middlings,  
 Trojan Mixed Feed,  
 Trojan Rye Feed.

American Agricultural Chemical Co., The, New York, N. Y.  
 Protox Pure Ground Meat Seraps.

American Diamalt Co., The, Cincinnati, Ohio.  
 Fleischmann's Dried Malt Grains.

American Hominy Co., Indianapolis, Ind.  
 Hexite Dairy Feed,  
 Hexite Horse Feed,  
 Hexite Jr. Horse Feed.  
 Hexite Serateh Feed,  
 Hexite Serateh Feed with Grit,  
 Homeo Chick Feed,  
 Homeo Cracked Corn (sereened),  
 Homeo Cracked Corn (not sereened),  
 Homeo Cracked Corn and Rolled Oats,  
 Homeo Dry Mash,  
 Homeo Dominy Feed,  
 Homeo Hog Feed,  
 Homeo Horse Feed,  
 Homeo Horse & Mule Fattener,  
 Homeo Jr. Horse Feed,  
 Homeo Pig & Shoat Feed,  
 Homeo Poultry Developer,  
 Homeo Serateh Feed,  
 Homeoline Feed,  
 Maizeline Feed,  
 Standard Serateh,  
 Standard Serateh with Grit.

American Linseed Co., New York, N. Y.  
 Old Proeess Oil Meal.

American Maize Products Co., New York, N. Y.  
 Cream of Corn Gluten Feed.

American Milling Co., Peoria, Ill.  
 Amco Alfalfa Molasses Feed,  
 Ameo Corn Germ Meal,  
 Ameo Dairy Feed,  
 Ameo Fat Maker,  
 Old Proeess Linseed Meal,  
 Ameo Stock Feed,  
 Cluek Cluek Serateh Feed.  
 Cluek Cluek Serateh Feed with 5 Per Cent. Grit,  
 Empire State Dairy Feed,  
 Kickapoo Horse Feed,  
 Peoria Horse Feed,  
 Suerene Calf Meal,  
 Suerene Chick Feed,  
 Suerene Chick Feed with 5 Per Cent. Grit.  
 Suerene Dairy Feed,  
 Suerene Hog Meal,  
 Suerene Horse Feed with Alfalfa,  
 Suerene Horse & Mule Feed,  
 Suerene Pigeon Feed,  
 Suerene Poultry Mash,  
 Serateh Feed.  
 Suerene Serateh Feed with 5 Per Cent. Grit,  
 Tip Top Horse Feed with Alfalfa,  
 Tip Top Sugared Feed.

Anheuser-Busch Brewing Ass'n., St. Louis, Mo.  
 Brewers' Dried Grains,  
 Malt Sprouts.

Animal Products Co., Philadelphia, Pa.

Apco Poultry Meat,  
Digester Tankage.

Ansted & Burke Co., The, Springfield, Ohio.

Bran,  
Corn & Oats Chop,  
Feed Meal,  
Humpty Dumpty Chick Feed with Grit,  
Humpty Dumpty Chick Feed, no Grit,  
Humpty Dumpty Scratch Feed with Grit,  
Humpty Dumpty Scratch Feed, no Grit,  
Middlings,  
Mixed Feed,  
Ohio Farm Feed.

Anthracite Brewing Co., Mt. Carmel, Pa.

Brewers' Dried Grains.

Aready Farms Milling Co., Chicago, Ill.

Aready Hog Meal & Charcoal,  
Aready Stock Feed,  
Arco Milk Maker,  
Certified Dairy Ration,  
Rkd Baby Chick Feed with Grit, Shell and Charcoal,  
Rkd Calf Meal,  
Rkd Chick Feed with Grit and Charcoal,  
Rkd Dairy Feed,  
Rkd Horse Feed,  
Rkd Poultry Feed with Grit, Shell and Charcoal,  
Sunkist Dairy Feed.

Archer-Daniels Linseed Co., Minneapolis, Minn.

Old Process Ground Linseed Cake.

Arkadelphia Milling Co., Arkadelphia, Ark.

Corn Bran,  
Hominy Meal.

Armour Fertilizer Works, Chicago, Ill.

Armour's Blood Meal,  
Armour's Granulated Bone,  
Armour's Meat Meal.

Ashcraft-Wilkinson Co., Atlanta, Ga.

Cottonseed Feed.

Ashland Stock Food Co., Ashland, Ohio.

Ashland Poultry Food Digester,  
Ashland Stock Food Digester.

Atkinson Milling Co., Minneapolis, Minn.

Wheat Bran with Screenings,  
Wheat Standard Middlings with Screenings.

Atlantic Export Co., New York, N. Y.

Doctor Spund Dried Brewers' Grains.

Atlas Feed & Milling Co., Peoria, Ill.

Atlas Corn Oil Meal,  
Atlas Distillers' Grains.

Atlas Mills & Elevator A., Vincennes, Ind.

Wheat Bran with Screenings not exceeding Mill Run.

Aviston Milling Co., Aviston, Ill.

Hobby Horse Middlings with Ground Screenings not exceeding Mill Run.

Ayer, H. O., Ulster, Pa.

Laying Mash,  
Scratch Grains,  
Wheat Bran,  
Wheat Middlings.

Badenoch Co., J. J., Chicago, Ill.

Badenoch's Stock Feed,  
C-er-lay Developing Feed, no Grit,  
C-er-lay Developing Feed, with Grit,

C-er-lay Fine Chick Feed, no Grit,  
 C-er-lay Fine Chick Feed, with Grit,  
 C-er-lay Poultry Feed, no Grit,  
 C-er-lay Poultry Feed, with Grit,  
 Daily Egg Poultry Feed, no Grit,  
 Daily Egg Poultry Feed, with Grit,  
 Gloskoat Alfalfa Horse Feed,  
 Graingold Dairy Ration.

Bailey, E. L., Cleveland, Ohio.  
 Bailey's B. B. Dairy Feed,  
 Layapek Poultry Feed,  
 Pearl Hominy Feed,  
 Sterling Quality Choice Cotton Seed Feed.

Baldwin Flour Mills, Minneapolis, Minn.  
 Baldwin Wheat Bran with not exceeding Mill Run of Ground Screenings,  
 Baldwin Wheat, Flour Middlings with not exceeding Mill Run of Ground  
 Screenings,  
 Baldwin Wheat Red Dog,  
 Baldwin Wheat Shorts with not exceeding Mill Run of Ground Screenings.

Baldwin, Prince & Co., Inc., Norfolk, Va.  
 Dominion Brand Cotton Seed Meal,  
 Peerless Brand Cottonseed Feed,  
 Quaker Brand Cotton Seed Feed.

Ballard & Ballard Company, Louisville, Ky.  
 Ballard's Bran,  
 Ballard's Kentucky Farm Feed,  
 Ballard's Mixed Wheat Feed.

Ballard Corn Mills, Louisville, Ky.  
 Ballard's Rye Feed,  
 Hominy Meal.

Barber Milling Co., Minneapolis, Minn.  
 Pure Wheat Bran Flakes,  
 Pure Wheat Fancy Low Grade Flour,  
 Pure Wheat Middlings with Screenings not to exceed Mill Run,  
 Pure Wheat White Middlings.

Baringer, M. F., Philadelphia, Pa.  
 Barley Mixed Feed,  
 Choice Cottonseed Meal,  
 Copra Cake Meal,  
 Corn Bran,  
 Crown Dried Brewers' Grains,  
 Dried Brewers' Grains,  
 Goodlow Cottonseed Feed,  
 Hominy Feed,  
 M. F. B. Dried Brewers' Grains,  
 M. F. B. Prime Cottonseed Feed,  
 M. F. B. Prime Cottonseed Meal,  
 M. F. B. Old Process Oil Meal,  
 M. F. B. Wheat Bran with Mill Run Screenings,  
 M. F. B. Wheat Middlings with Mill Run Screenings,  
 M. F. B. Wheat Mixed Feed with Mill Run Screenings,  
 Reground Oat Hulls.

Barley Foods Company, Morgantown, W. Va.  
 Barley Feed,  
 Barley Middlings.

Bates, R. A., Cowansville, Pa.  
 All Good.

Battle & Co., W. P., Memphis, Tenn.  
 Battle Brand Cotton Seed Feed,  
 Battle Brand "Prime Meal."

Baugh & Sons Co., Philadelphia, Pa.  
 Baugh's Special Ground Bone for Poultry,  
 Baugh's XX Beef Scrap for Poultry.

- Bay State Milling Co., Winona, Minn.  
 Barley Middlings and Barley Sereenings,  
 "Bay State" Barley Mixed Feed and Barley Sereenings,  
 Hominy Feed,  
 Rye Middlings,  
 Winona Coarse Wheat Bran,  
 Winona Mixed Wheat Feed,  
 Winona Wheat Middlings and Wheat Screenings,  
 Yellow Hominy Feed.
- Beek Cereal Co., Detroit, Mich.  
 Royal Chop Feed,  
 Royal Yellow Hominy Feed Meal.
- Bennet, Day & Co., New York, N. Y.  
 Bean Feed.
- Berg Company, The, Philadelphia, Pa.  
 Berg's 3 Medal Beef Serap,  
 Berg's 3 Medal Poultry Meat.
- Bernet, Craft & Kauffman Mfg. Co., Mt. Carmel, Ill.  
 Middlings,  
 Mixed Feed (Bran and Middlings),  
 Mt. Carmel Bran.
- Big Diamond Mills Co., Minneapolis, Minn.  
 Big Diamond Bran,  
 Big Diamond Flour Middlings,  
 Big Diamond Standard Middlings.
- Birkett Mills, The, Penn Yan, N. Y.  
 Buckwheat Offal Feed,  
 Hominy Meal,  
 Wheat Bran,  
 Wheat Middlings.
- Bishopp Hominy Co., Sheldon, Ill.  
 Pure Corn Hominy Feed.
- Blaine, Maekay, Lee Company, North East, Pa.  
 Flour Middlings with Mill Run Sereenings,  
 Mix Feed with Mill Run Sereenings,  
 Red Dog with Mill Run Screenings,  
 Wheat Bran with Mill Run Screenings.
- Blake Milling Co., The, Edwardsville, Ill.  
 Wheat Bran with Ground Sereenings not exeeding Mill Run.
- Blamberg Brothers, Inc., Baltimore, Md.  
 Cornell Braud Beef Seraps,  
 Cornell Brand Chiek Feed,  
 Cornell Brand Developing Mash,  
 Cornell Brand Dry Mash,  
 Cornell Brand Fattening Ration,  
 Cornell Brand Growing Feed,  
 Cornell Brand Liberty Staudard Laying Mash,  
 Coruell Brand Meat Scraps,  
 Cornell Brand No. 1 Pigeon Feed,  
 Cornell Brand No. 2 Pigeon Feed,  
 Cornell Brand No. 3 Pigeon Feed,  
 Cornell Brand No. 4 Pigeon Feed,  
 Cornell Brand Serateh Feed,  
 Cornell Brand Special Beef Scraps,  
 Coruell Buttermilk Chiek Starter,  
 Cornell Buttermilk Laying Mash,  
 Exlnt Brand Dry Mash,  
 Exlnt Brand Serateh Feed,  
 Semi-Solid Buttermilk (Condensed).
- Blank & Gottshall, Sunbury, Pa.  
 B. & G. Baby Chiek Feed,  
 B. & G. Chick Feed,  
 B. & G. Chick Mash,  
 B. & G. Dairy Food,  
 B. & G. Developing Food,  
 B. & G. Hen Food,

B. & G. Hen-O-La Chick Food,  
 B. & G. Hen-O-La Scratch Food,  
 B. & G. Horse Food,  
 B. & G. Mash Food,  
 B. & G. Pigeon Food,  
 Buckwheat Middlings,  
 Corn Bran,  
 Rye Middlings,  
 Wheat Bran,  
 Wheat Middlings,

Blatchford Calf Meal Factory, Waukegan, Ill.  
 Blatchford's Bar Nun Laying Mash,  
 Blatchford's Calf Meal,  
 Blatchford's Dairy Brand Calf Meal,  
 Blatchford's Egg Mash,  
 Blatchford's Fill the Basket Egg Mash,  
 Blatchford's Lamb Meal,  
 Blatchford's Milk Mash,  
 Blatchford's Pig Meal,  
 Blatchford's Topping Off Meal.

Blish Milling Co., Seymour, Ind.  
 Bull's Eye Mixed Feed.

Bolgiano & Son, J., Baltimore, Md.  
 Beef Scraps,  
 Chick Food,  
 Chick Starter,  
 Pigeon Food,  
 Poultry Food.

Boston Molasses Company, Boston, Mass.  
 Xtra-Vim Feed.

Bradford & Son Center Hall, Pa.  
 Keystone Chop,  
 Winter Wheat Bran,  
 Winter Wheat Middlings.

Brandt & Stedman, Mt. Joy, Pa.  
 B. & S. Dry Mash,  
 B. & S. Growing Feed.

Brehm, H. F., Waterloo, N. Y.  
 Brehm's Beef Scrap and Bone.

Brode & Co., F. W., Memphis, Tenn.  
 Dove Brand Cottonseed Meal,  
 Jay Brand Cottonseed Feed,  
 Owl Brand Cottonseed Meal.

Brooks, George C., Wellsboro, Pa.  
 "Brooks Mixture" Dairy Feed,  
 State Mixture.

Brown & Fassett, Tunkhannock, Pa.  
 Favorite Dry Mash,  
 Scratch Feed.

Buckeye Cereal Co., The, Massillon, Ohio.  
 Bar X Dairy Feed,  
 Buckeye Scratch Feed,  
 Energy Horse Feed,  
 Ground Corn Screenings,  
 Malto Dairy Feed,  
 Sweet Moselle Horse Feed.

Buckeye Cotton Oil Co., The, Cincinnati, Ohio.  
 Buco Cottonseed Feed,  
 Cottonseed Feed.

Buehrle Co., The Albert H., Youngstown, Ohio.  
 Hi-Quality Horse Feed.

Buffalo Cereal Co., Buffalo, N. Y.  
 "B" Corn Meal,  
 Bufceco Chick Feed,

Bufceco Chop Feed,  
 Bufceco Creamery Feed,  
 Bufceco Dairy Feed,  
 Bufceco Hominy Feed,  
 Bufceco Horse Feed,  
 Bufceco Intermediate Scratching Grains,  
 Bufceco Laying Mash,  
 Bufceco Pigeon Feed,  
 Bufceco Poultry Mash,  
 Bufceco Scratching Grains,  
 Bufceco Steam Cooked Feed,  
 Bufceco Stock Feed,  
 Bufcelene Horse Feed,  
 Iroquois Chick Feed,  
 Iroquois Poultry Mash,  
 Iroquois Scratching Grains,  
 Mohawk Corn Meal,  
 Seneca Corn Meal,  
 Target Scratching Grains,  
 Yellow Hominy Feed.

Burch, J. H., Knoxville, Pa.  
 Chop Feed.

Bushkill Milling Co., Easton, Pa.  
 Clear Grain Scratch Food,  
 Corn and Cob Meal,  
 Corn Chop,  
 Cracked Corn,  
 Mixed Feed,  
 Wheat Bran,  
 Wheat Middlings.

Butler County Feed & Mfg. Co., Greenville, Ala.  
 Velvet Bean Feed.

Campbell & Co., C. L., Little Rock, Ark.  
 Double Hump Brand Cottonseed Meal,  
 Single Hump Brand Cottonseed Meal.

Cannon Valley Milling Co., Minneapolis, Minn.  
 Billie Low Grade,  
 C. V. Bran with Ground Screenings not exceeding Mill Run,  
 C. V. Flour Middlings, Pure Wheat Middlings,  
 C. V. St. Middlings, Pure Wheat Middlings.

Canton Mercantile Co., Canton, Pa.  
 Blue Ribbon Laying Mash,  
 Brewers' Dried Grains,  
 Cottonseed Meal,  
 Gluten Feed,  
 Hominy Feed,  
 Linseed Oil Meal,  
 Mixed Grains,  
 No. 1 Chop,  
 Wheat Bran,  
 Wheat Middlings.

Capital City Milling & Grain Co., St. Paul, Minn.  
 St. Paul Queen Mixed Feed.

Cataract City Milling Co., Niagara Falls, N. Y.  
 Wheat Bran with Ground Screenings not exceeding Mill Run,  
 Wheat Mixed Feed with Ground Screenings not exceeding Mill Run,  
 Wheat Standard Middlings with Ground Screenings not exceeding Mill Run,  
 Wheat White Middlings with Ground Screenings not exceeding Mill Run.

Cavalier Milling Co., Cavalier, N. D.  
 Bran,  
 Middlings,  
 Mixed Feed.

Century Milling Co., Minneapolis, Minn.  
 Berkshire Wheat Flour Middlings,  
 Jersey Wheat Bran,  
 Poland Wheat Standard Middlings,  
 Pure Wheat Red Dog Flour,  
 Sterling Rye Middlings.

Chamberlin Co., F. B., St. Louis, Mo.  
 Chamberlin's Perfect Chick Feed,  
 Chamberlin's Perfect Hen Feed,  
 Chamberlin's Perfect Mash Egg Feed,  
 Chamberlin's Perfect Pigeon Feed.

Champion Roller Milling Co., Richmond, Ind.  
 Wheat Bran,  
 Wheat Middlings.

Chapin & Company, Hammond, Ind.  
 Acorn Dairy Ration,  
 Ajax Flakes (Distillers' Dried Grains),  
 Centaur Stock Feed,  
 Green Diamond Brand Cottonseed Meal,  
 Green Diamond Hominy Meal,  
 Laetola Dairy Feed,  
 Malt Sprouts,  
 Oil Meal,  
 Pure Linseed Meal,  
 Triangle Dairy Feed,  
 Unicorn Dairy Ration.

Chesbro Brothers, Attica, N. Y.  
 Corn, Oats and Barley Feed.

Christenson Co., C. S., Madelia, Minn.  
 Wheat Bran,  
 Wheat Flour Middlings,  
 Wheat Standard Middlings.

Christian & Co., George C., Redfield, S. D.  
 Bran,  
 Flour Middlings,  
 Shorts.

Circleville Milling Co., Circleville, Ohio.  
 Kaffir, Oat and Corn Feed,  
 Mixed Stock Feed,  
 Yellow Corn Bran,  
 Yellow Cracked Corn,  
 Yellow Feed Meal.

City Flouring Mills, Inc., Muney, Pa.  
 Buckwheat Feed.

Claro Milling Co., Waseca, Minn.  
 Barley Feed,  
 Claro Mixed Feed with Ground Screenings,  
 Claro Red Dog Flour,  
 Claro Wheat Bran with Ground Screenings,  
 Claro Wheat Flour Middlings,  
 Claro Wheat Middlings with Ground Screenings,  
 Claro Wheat Standard Middlings with Ground Screenings.

Cleveland Milling Co., Cleveland, Ohio.  
 Choice White Middlings,  
 Standard Middlings,  
 Wheat Bran.

Cleveland Provision Co., The, Cleveland, Ohio.  
 Premium Digester Tankage.

Clinton Sugar Refining Co., Clinton, Iowa.  
 Clinton Corn Gluten Feed,  
 Clinton Corn Oil Cake Meal.

Clover Leaf Milling Co., Buffalo, N. Y.  
 Big Clover Mills Complete Ration,  
 Brewers' Dried Grains,  
 Buffalo Horse Feed,  
 Clover Leaf Mills Calf Meal,  
 Clover Leaf Mills Cottonseed Feed,  
 Clover Leaf Mills Dairy Feed,  
 Clover Leaf Mills Dairy Ration,  
 Clover Leaf Mills Horse Feed,  
 Clover Leaf Mills Stock Feed,  
 Clover Leaf Mills Sweet Feed,

Corn Bran,  
 Cotton Seed Feed,  
 Hominy Feed,  
 Oriental Dairy Feed,  
 Peerless Horse Feed,  
 Peerless Milk Ration,  
 Polo Horse Feed,  
 Provo Horse Feed,  
 Sweet Clover Mills Ready Ration,  
 White Mountain Stock Feed.

Coates Company, The, Chagrin Falls, Ohio.  
 Ecota Hog Feed,  
 Ecota Dairy Feed,  
 Four A Dairy Feed.

Cole Milling Co., H. C., Chester, Ill.  
 Wheat Bran with Ground Screenings not exceeding Mill Run.  
 Wheat Middlings with Ground Screenings not exceeding Mill Run.

Collegeville Mills, Collegeville, Pa.  
 Morex Chicken Mash,  
 Our Own Make Scratch Feed.

Colonial Food Digester Co., Montrose, Pa.  
 Colonial Food Digester,  
 Colonial Poultry Regulator.

Colton Brothers Co., The, Bellefontaine, Ohio.  
 Corn and Oats Feed,  
 King Crop,  
 Mixed Feed with Ground Screenings not exceeding Mill Run.  
 Wheat Bran including Ground Screenings not exceeding Mill Run.  
 Wheat Middlings including Ground Screenings not exceeding Mill Run.

Columbia Milling Co., Philadelphia, Pa.  
 Winter Wheat Bran,  
 Winter Wheat Middlings.

Commander Mill Co., Minneapolis, Minn.  
 Battleship,  
 Commander Wheat Bran with Ground Screenings not exceeding Mill Run.  
 Commander Wheat Flour Midds. with Ground Screenings not exceeding Mill Run,  
 Commander Wheat Standard Midds. with Ground Screenings not exceeding Mill Run.

Commercial Milling Co., Detroit, Mich.  
 Henkel's Chop Feed.

Conkey Company, The G. E., Cleveland, Ohio.  
 Conkey's Buttermilk Starting Food (for Chicks).

Conklin & Son, Inc., E. W., Binghamton, N. Y.  
 Arrow Chick Food,  
 Arrow Egg Food,  
 Atlas Seratch Grain.

Consolidated Dressed Beef Co., Philadelphia, Pa.  
 Consolidated Beef and Bone Scrap,  
 Consolidated Beef Scrap,  
 Consolidated Digester Tankage,  
 Stock Yard Hog Food.

Consolidated Flour Mills Co., Hutchinson, Kans.  
 Corn Chop with Corn Bran,  
 Wheat Bran with Screenings,  
 Wheat Mixed Feed with Screenings,  
 Wheat Shorts with Screenings.

Continental Condensed Milk Co., Mill Hall, Pa.  
 Hallman Calf Meal Mixture.

Coombs Milling Co., W. A., Coldwater, Mich.  
 Wheat Bran with Ground Screenings not exceeding Mill Run.  
 Wheat Middlings with Ground Screenings not exceeding Mill Run.  
 Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.

Copelin, Duke, Philipsburg, Pa.

Corn Chop,

Mixed Chop, Corn and Oats,

Rye and Oats Chop.

Coppes Bros. & Zook, Napanee, Ind.

Bran,

Middlings.

Corby Company, The, Washington, D. C.

Corby Dried Grains from the manufacture of Yeast.

Corn Products Refining Company, New York, N. Y.

Argo Corn Oil Cake Meal,

Buffalo Corn Gluten Feed,

Diamond Corn Gluten Meal,

Diamond Hog Meal,

Globe Corn Gluten Feed.

Corno Mills Co., The, St. Louis, Mo.

Corno Chick Feed,

Corno Dairy Feed,

Corno Hen Feed,

Corno Horse and Mule Feed,

Corno Stock Feed,

Corno Sweet Feed.

Cover Supply Co., Inc., Baltimore, Md.

C. S. C. Feed.

Crouch Brothers Co., Erie, Pa.

Cracked Corn,

Pure Corn and Oats Chop,

Pure Corn Meal,

Wheat Bran with Ground Screenings not exceeding Mill Run.

Wheat Middlings with Ground Screenings not exceeding Mill Run.

Curry's Sons, John B., Palmyra, Pa.

Pure Winter Wheat Middlings.

Dahnke Walker Milling Co., Union City, Pa.

Daneo Feed.

Dannals Milling Co., Altoona, Pa.

Superior Chick Food,

Superior Corn and Oats Chop,

Superior Hen Food,

Superior Horse Chop,

Superior Pure Corn.

Darling & Company, Chicago, Ill.

Darling's Blood Meal,

Darling's Digester Tankage,

Darling's Feeding Tankage,

Darling's Granulated Bone,

Darling's Meat Crisps,

Darling's Meat Seraps.

Davis & Andrews Co., Memphis, Tenn.

Hominy Feed.

Davis, S. P., Little Rock, Ark.

Beauty Brand Cottonseed Feed,

Good Luck Brand Cottonseed Meal,

Veribest Brand Cottonseed Meal.

Dayton Milling Co., Towanda, Pa.

Dayton's Laying Mash,

Ideal Scratch Grain,

Prize Baby Chick.

Dean Brothers, New Milford, Pa.

Chop Feed,

Corn Feed Meal,

Corn and Oat Feed,

Liberty Laying Mash,

Liberty Scratch Feed.

Deerfield Milling Co., Knoxville, Pa.

Wheat Bran,  
Wheat Middlings.

Denver Alfalfa Milling & Products Co., The, Hartman, Colo.  
Alfalfa Meal.

Deposit Milling Co., Deposit, N. Y.

Corn Meal,  
Cracked Corn,  
Granulated Corn Meal,  
No. 2 Mixed Hen Feed,  
Pure Corn and Oats Ground,  
Pure Grain Mixed Hen Feed,  
Scratch Grains,  
Wheat Bran,  
Wheat Middlings.

Deutsch & Sickert Co., Milwaukee, Wis.

Barley Feed,  
Flour Middlings,  
Hominy Feed,  
Malt Sprouts,  
Pure Dried Brewers' Grains,  
Pure Wheat Bran,  
Pure Wheat Middlings,  
Red Dog Flour,  
Rye Middlings,  
Spirits Distillers' Dried Grains,  
Wheat Bran with Ground Screenings,  
Wheat Middlings with Ground Screenings.

DeWine Milling Co., Yellow Springs, Ohio.

Gilt Edge Chick Feed,  
Gilt Edge Scratch Feed.

Dickinson Co., The Albert, Chicago, Ill.

Alfalfa Meal,  
Colonial Chick Feed with Grit,  
Colonial Chick Feed no Grit,  
Colonial Developing Feed, no Grit,  
Colonial Developing Feed, with Grit,  
Colonial Scratch Feed, no Grit,  
Colonial Scratch Feed, with Grit,  
Crescent Chick Feed, no Grit,  
Crescent Chick Feed, with Grit,  
Crescent Scratch Feed, no Grit,  
Crescent Scratch Feed, with Grit,  
Dickinson Dairy Feed,  
Globe Chick Feed, no Grit,  
Globe Chick Feed, with Grit,  
Globe Developing Feed, no Grit,  
Globe Developing Feed, with Grit,  
Globe Egg Mash,  
Globe Pigeon Feed, no Grit,  
Globe Scratch Feed, no Grit,  
Globe Scratch Feed, with Grit,  
Hobby Horse Feed,  
Honeysuckle Feed,  
King Pigeon Feed, no Grit,  
King Pigeon Feed, with Grit,  
Oasis Horse Feed,  
Pine Tree Chick Feed, no Grit,  
Pine Tree Chick Feed, with Grit,  
Pine Tree Scratch Feed, no Grit,  
Pine Tree Scratch Feed, with Grit,  
Queen Poultry Mash,  
Rival Horse Feed,  
Rival Scratch Feed, no Grit,  
Rival Scratch Feed, with Grit,  
Stag Stock Feed,  
White Cross Chick Feed, no Grit,  
White Cross Chick Feed, with Grit,  
White Cross Horse Feed,  
White Cross Scratch Feed, no Grit,  
White Cross Scratch Feed, with Grit.

Diehl, Omwake & Diehl, Chambersburg, Pa.

D. O. D. Dairy Feed,  
D. O. D. Make-Em-Lay Dry Mash Feed,  
D. O. D. Scratches Feed,  
D. O. D. Stock Feed.

Dixie Mills Co., East St. Louis, Ill.

Anchor Dairy Feed,  
Anchor Molasses Horse & Mule Feed,  
Diamond Dairy Feed,  
Diamond Horse & Mule Feed,  
Dixie Cow Feed,  
Dixie Dairy Feed,  
Dixie Hen Feed,  
Dixie Horse & Mule Feed,  
Polo Horse Feed.

Dold Packing Co., Jacob, Buffalo, N. Y.

Dold Quality Digester Tankage,  
Dold Quality Meat and Bone Meal,  
Dold Quality Meat and Bone Scrap,  
Dold Quality No. 2 Meat and Bone Scrap,  
Dold Quality Poultry Bone,  
Dold Quality Soluble Blood Flour.

Donahue-Stratton Co., Milwaukee, Wis.

Hiquality Brewers' Dried Grains,  
Hiquality Corn Spirits Distillers' Dried Grains.

Douglas Company, Cedar Rapids, Iowa.

Douglas Corn Gluten Feed.

Dousman Milling Co., The John P., DePere, Wis.

Dousman's Red Dog Flour,  
Dousman's Wheat Bran,  
Dousman's Wheat middlings.

DuBois Brewing Co., DuBois, Pa.

Dried Brewers' Grains.

Dull's Flour & Feed Store, Easton, Pa.

Extra Straight Poultry Mash,  
Mixed Grain,  
Poultry Mash.

Duluth Superior Milling Co., Duluth, Minn.

Barley Feed,  
Boston Mixed Feed,  
Corn Feed,  
Duluth Imperial Bran,  
Flour middlings,  
Red Dog Flour,  
S. middlings,

Duluth Universal Milling Co., Duluth, Minn.

Duluth Universal Bran with Ground Screenings,  
Duluth Universal Flour middlings with Ground Screenings.

Duncannon Flouring Mill Co., Duncannon, Pa.

Chick Chuck Feed.

Dunlop Mills, The, Richmond, Va.

Dunlop Arrow Ship Stuff and Ground Recleaned Screenings not exceeding  
Mill Run,  
Dunlop Arrow Wheat Bran.

Dunwoody Co., Ezel., Philadelphia, Pa.

Brewers' Dried Grains,  
Buckwheat Feed,  
Digester Tankage,  
Fish Scrap,  
Hominy Feed,  
Poultry Meat,  
Special Chick Feed,  
Special Developing Chick Feed,  
Special Horse Feed,  
Special Pigeon Feed,

Special Pigeon Feed without Corn,  
Special Poultry Mash Feed,  
Special Poultry Serateh Feed.

Eagle Roller Mill Co., New Ulm, Minn.  
Flour Middlings with Ground Screenings not exceeding Mill Run,  
Hominy Feed,  
No. 2 Feed (Corn and Oats),  
Red Dog Superb Flour,  
Rye Middlings with Ground Screenings not exceeding Mill Run,  
Wheat Bran with Ground Screenings not exceeding Mill Run,  
Wheat Middlings with Ground Screenings not exceeding Mill Run.

Early & Daniel Co., The, Cincinnati, Ohio.  
Alfalfa Meal,  
Ben Hur Horse and Mule Feed,  
Ce-re-a-lia Egg Mash,  
Ce-re-a-lia Sweets for Dairy,  
Digester Tankage,  
Eaden Chick,  
Eaden Serateh,  
Eaden Seratch with Grit,  
Ranger Balanced Ration,  
Rex Serateh Feed,  
Tuxedo Chick,  
Tuxedo Chop,  
Tuxedo Seratch.

Easton Flour & Feed Co., Easton, Pa.  
Easton's Best Mixed Grain,  
Easton's Best Poultry Mash.

Eby, Elmer, Lititz, Pa.  
10 Per cent. Poultry Mash.

Eby & Son, Jonas F., Lancaster, Pa.  
Buttermore Choice Corn Distillers' Dried Grains,  
Conestoga Glnten Feed,  
Corby Dried Grains,  
Crystaloid Dairy Feed,  
Exceelsior Pigeon Feed, no Grit,  
Laymor Serateh Feed, no Grit,  
Laymor Serateh Feed, 5 per cent. Grit,  
Maney Rye Middlings,  
Perfection Pullet Feed, no Grit,  
Stockade Faucy Dried Brewers' Grains,  
Superior Chieh Feed, no Grit,  
Superior Chieh Feed, 5 per cent. Grit.  
Trinmph Mash Feed.

Eekhart Milling Co., B. A., Chicago, Ill.  
Bran with Ground Screenings not exceeding Mill Run,  
Mixed Feed,  
Rye Middlings,  
Wheat and Rye Flour Middlings.

Economie Feed Co., Inc., New York, N. Y.  
Economie Creme de la Creme Dairy Feed with Molasses,  
Economie Dairy Feed,  
Economie Eeee Horse and Mule Feed with Molasses,  
Economie Entire Horse Feed with Molasses,  
Economie Horse and Mule Feed with Molasses,  
Economie Horse and Dairy Feed with Molasses,  
Economie Norman Horse Feed,  
Economie Speeial Dairy Feed,  
Economie Velva Dairy Feed,  
Fleisehmann's XX Dried Grains.

Edgar-Morgan Co., Memphis, Tenn.  
Cottonseed Feed,  
Happy Cow Feed (Dry),  
Happy Hen Serateh Feed,  
Happy Hog Feed,  
Little Ned Sweet Feed,  
Old Beek Sweet Feed.

Empire Cotton Oil Co., Atlanta, Ga.  
 Gilt Edge Brand Cottonseed Feed,  
 Gilt Edge Brand Cottonseed Meal.

Empire Grain & Elevator Co., Binghamton, N. Y.  
 Egee Chick Feed,  
 Egee Poultry Mash,  
 Egee Scratch Feed,  
 Egee Stock Feed,  
 Neverfail Dairy Feed,  
 Neverfail Egg Producer,  
 Pearl Hominy Feed.

Empire Milling Co., Minneapolis, Minn.  
 Empire Bran with Ground Screenings not exceeding Mill Run,  
 Empire Hard-to-Beat Midds. with Ground Screenings not exceeding Mill Run,  
 Empire Standard Middlings with Ground Screenings not exceeding Mill Run.

Empire Mills, Olean, N. Y.  
 Brewers' Dried Grains,  
 Corn Feed Meal,  
 Empire Feed,  
 Snowball Flour Middlings.

Emporium Milling Co., Emporium, Pa.  
 Emporium Feed,  
 Emporium Scratch Grains,  
 Felt's Poultry Mash,  
 Liberty Standard Laying Mash,  
 No. 1 Provender Pure Corn and Oats Chop.

Enterprise Milling Co., Oil City, Pa.  
 Dr. Hess Poultry Panacea,  
 Dr. Hess Stock Tonic.

Eshelman, John W., Lancaster, Pa.  
 Hamilton Horse Feed,  
 Imperial Scratch Feed, no Grit,  
 Imperial Scratch Feed, 5 per cent. Grit,  
 J. W. E.'s Calf Meal,  
 J. W. E.'s Chick Feed, no Grit,  
 J. W. E.'s Chick Feed, 5 per cent. Grit,  
 J. W. E.'s Corn Bran,  
 J. W. E.'s Corn and Oats Chop,  
 J. W. E.'s Developing Feed, no Grit,  
 J. W. E.'s Digester Tankage,  
 J. W. E.'s Fish Scrap,  
 J. W. E.'s Growing Mash,  
 J. W. E.'s Hog Meal,  
 J. W. E.'s Home-Made Dairy Feed,  
 J. W. E.'s Horse Feed,  
 J. W. E.'s Laying Mash,  
 J. W. E.'s Meat and Bone Scrap,  
 J. W. E.'s Pigeon Feed, no Grit,  
 J. W. E.'s Poultry Bone,  
 J. W. E.'s Scratch Feed, no Grit,  
 J. W. E.'s Scratch Feed, with 5 per cent. Grit,  
 J. W. E.'s Special Pigeon Feed, no Grit,  
 J. W. E.'s Stock Feed.

Etters, Clayton, Oak Hall Station, Pa.  
 Choice Chop.

Evans Milling Co., Indianapolis, Ind.  
 Evans' Hominy Feed.

Everett, Aughenbaugh & Co., Waseca, Minn.  
 E-A Co. Barley Feed,  
 E-A Co. Mixed Feed,  
 E-A Co. Wheat Bran,  
 E-A Co. Wheat Middlings.

Ewart & Lakr, Groveland, N. Y.  
 Barley Mixed Feed.

Excello Feed Milling Co., St. Joseph, Mo.  
 Alfalfa Meal,  
 Excello Chick Feed,  
 Excello Dairy Feed,

Excello Hen Feed,  
 Excello Horse Feed,  
 Excello Molasses Feed,  
 Excello Poultry Mash,  
 Ideal Horse Feed,  
 Reliable Dairy Feed,  
 Reliable Hen Feed,  
 Reliable Horse and Mule Feed,  
 Reliable Molasses Feed,  
 Sho-Me Horse Feed.

Farabaugh, F. E., Patton, Pa.  
 Dandy Dry Mash,  
 Mixed Hen Feed.

Faramel Manufaeturing Co., Buffalo, N. Y.  
 Boggs Ceremal Horse Feed,  
 Faramel Alpha Feed,  
 Faramel Dairy Feed,  
 Faramel Horse Feed,  
 Faramel Speciaal Serateh Feed.

Farmers' Feed Co., New York, N. Y.  
 Bull Brand Dried Brewers' Grains.

Farmers' Fertilizer, Seed & Hide Co., Womelsdorf, Pa.  
 May's Hog Tankage.

Federal Stock Food Co., Mifflinburg, Pa.  
 Federal Stock Conditioner.

Finn, George M., Syraense, N. Y.  
 Chicken Feed prepared from Ground Meat and Bone Serap.

Fleischmann's Co., The, New York, N. Y.  
 Fleischmann's Dried Grains.

Flory Milling Co., The, Bangor, Pa.  
 Extra Rye, Corn and Oat Feed,  
 Globe Cow Feed,  
 Globe Hog and Cow Feed,  
 Golden Egg Chick Feed,  
 Golden Egg Dry Mash,  
 Golden Egg Serateh Feed,  
 Liberty Standard Chick Feed,  
 Liberty Standard Growing Mash,  
 Liberty Standard Laying Mash,  
 Liberty Standard Mixed Grains,  
 Mixed Wheat and Rye Middlings,  
 Pure Rye Middlings,  
 Pure Wheat Bran,  
 Pure Wheat Middlings,  
 Speciaal Mixed Horse Feed.

Franke Grain Co., The, Milwaukee, Wis.  
 Barley Feed,  
 Choice Cottonseed Meal,  
 Dried Grains,  
 Gluten Feed,  
 Hominy Feed,  
 Malt Sprouts,  
 Old Proeess Oil Meal,  
 Pure Wheat Bran,  
 Rye Middlings,  
 Wheat Bran with Sereenings not exceeding Mill Run,  
 Wheat Flour Middlings,  
 Wheat Middlings,  
 Wheat Red Dog Flour.

Franklin Milling Co., Swineford, Pa.  
 Franklin Stoek Food.

Fritch, D. D. & M. D., Macungie, Pa.  
 Corn Chop,  
 Corn and Cob Chop,  
 Mix Chop,

- Rye Middlings,  
Wheat Bran,  
Wheat Germ,  
Wheat and Rye Middlings.
- Fritz Co., The, Philadelphia, Pa.  
Quaker City Special Brand Meat and Bone Seraps.
- Fuhrmann & Schmidt Brewing Co., Shamokin, Pa.  
Brewers' Dried Grains.
- Furst Brothers, Cedar Springs, Pa.  
Mix Chop,  
Standard Middlings.
- Gamble, G. M., Bellefonte, Pa.  
Excelsior Chick Feed,  
Excelsior Hen Feed  
Mixed Chop,  
Pure Corn Chop,  
Pure Wheat Bran,  
Pure Wheat Middlings.
- Gambrill Manufacturing Co., C. A. Baltimore, Md.  
Bran with Ground Screenings not exceeding Mill Run,  
Brown Middlings with Ground Screenings not exceeding Mill Run.  
"G" Middlings,  
Hog Feed,  
Horse Feed,  
Middlings with Ground Screenings not exceeding Mill Run.  
Premier Middlings,  
White Middlings.
- Gandy & Co., O., South Whitley, Ind.  
Chop Feed,  
Standard A Chick Feed  
Standard A Poultry Feed,  
Standard Hog Feed.
- Garber, E. W., Mount Joy, Pa.  
Garber's Poultry Powder,  
Garber's Stock Food.
- Garland Milling Co., Greensburg, Ind.  
Garland Mixed Feed.
- Gates Elevator Co., The, Cleveland, Ohio.  
Gates' Quality Poultry Mash,  
Gates' Quality Seratch Feed,  
Reliable Dairy Feed,
- General Flour & Feed Co., Buffalo, N. Y.  
Pure Quill C. & O. Feed.
- Globe Elevator Co., Buffalo, N. Y.  
Anehor Dairy Feed,  
Anehor Horse Feed,  
Anehor Seratch Feed,  
Blue Ribbon Developing Feed,  
Blue Ribbon Growing Mash,  
Blue Ribbon Horse Feed,  
Blue Ribbon Laying Mash,  
Blue Ribbon Little Chick Feed,  
Blue Ribbon Pigeon Feed,  
Blue Ribbon Seratch Feed,  
Buffalo Stock Feed,  
C. O. & B. Chop,  
Globe Creamery Feed,  
Globe Dairy Feed,  
No. 1 Chop Feed,  
Star Seratching Grains.
- Godshall, Allen B., Telford, Pa.  
Corn Chop,  
Ear Corn Chop,  
Hog Feed,  
Mash Feed,  
Rye Feed,  
Special Poultry Mash,  
White Corn Bran.

Godshall & Co., A. C., Lansdale, Pa.

- Chick Feed,
- Corn Meal,
- Dry Mash,
- Ground Ear Corn,
- Mixed Chop.
- Rye Middlings,
- Seratch Feed,
- Wheat Bran,
- Wheat Middlings,

Golden Grain Milling Co., East St. Louis, Ill.

- Ben Hur Horse and Mule Feed,
- Butter Fat Dairy Feed,
- Cornette Horse and Mule Feed,
- Economy Serateh Feed,
- Golden Grain Alfalfa Molasses Meal,
- Golden Grain Chiek Feed,
- Golden Grain Dry Horse & Mule Feed,
- Golden Grain Horse & Mule Feed,
- Golden Grain Mills Dairy Feed,
- Golden Grain Seratch Feed,
- Ideal Horse and Mule Feed,
- Liberty Bond Horse and Mule Feed,
- Maseot Horse and Mule Feed,
- Over the Top Horse and Mule Feed,
- Pereheron Horse and Mule Feed,
- Puritan Horse and Mule Feed,
- Southern Horse and Mule Feed,

Goldsboro Pure Feed Co., Goldsboro, Pa.

- Gold-O Cane Molasses Mairy Feed,
- Gold-O Pure Cane Molasses Swine Feed,
- June Bug Dairy Feed.

Goodling, D. W., Riehfield, Pa.

- Keystone Chiek Starter.

Goodrich Co., William, Milwaukee, Wis.

- Old Process Ground Oil Cake.

Good's City Mills, Williamsport, Pa.

- Prize Poultry Food.

Goshen Milling Co., The, Goshen, Ind.

- Bran,
- Middlings.

Goodhue Mill Co., Minneapolis, Minn.

- Winsome Bran with Ground Screenings not exceeding Mill Run,
- Winsome Flour Middlings, pure Wheat Middlings,
- Winsome Straight Middlings, Pure Wheat Middlings.

Grafton Roller Mill Co., The, Grafton, N. Dak.

- Grafton Bran,
- Grafton Middlings,
- Improved Grafton Wheat Feed.

Grain Belt Mills Co., South St. Joseph, Mo.

- Bonanza Horse & Mule Feed,
- Bronco Horse & Mule Feed,
- Competition Horse & Mule Feed,
- Economy Molasses Feed,
- Extra Horse & Mule Feed,
- Gee Bee Chiek Feed,
- Gee Bee Hen Feed,
- Greenleaf Alfalfa Molasses Feed,
- Hunter Horse & Mule Feed,
- Oatfalfa Horse & Mule Feed,
- Pennant Horse & Mule Feed,
- Red D Dairy Feed,
- Stag Alfalfa Molasses Feed,
- Topper Hog Feed.

Grain Products Sales Co., New York, N. Y.

- Columbia Brewers' Dried Grains,
- Columbia Corn Distillers' Grains.

Grandin Milling Co., D. H., Jamestown, N. Y.  
 Grandin's Milk Maker,  
 Grandin's Scratch Feed,  
 Grandin's Stock Food.

Great Northern Flour Mills Co., Minneapolis, Minn.  
 Hominy Feed,  
 Wheat Bran,  
 Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,  
 Wheat Red Dog Flour,  
 Wheat Standard Middlings with Ground Screenings not exceeding Mill Run.

Greencastle Elevator Co., Greencastle, Pa.  
 C. V. Hen Feed.

Greene Chick Feed Co., Marblehead, Mass.  
 Greene's Buttermilk Growing Feed,  
 Greene's "First Feed,"  
 Greene's Poultry Seraps.

Guarantee Food Co. of Penna., Lewisburg, Pa.  
 Keystone Stock Conditioner.

Gwinn Milling Co., The, Columbus, Ohio.  
 Chick Feed,  
 Cracked Corn,  
 Dairy Feed With Screenings not exceeding Mill Run,  
 Horse and Mule Feed,  
 Red Dog Flour,  
 Wheat Bran with Screenings not exceeding Mill Run,  
 Wheat Middlings with Screenings not exceeding Mill Run.

Hales & Edwards Co., Chicago, Ill.  
 Cackle Fine Chick Feed, with Grit,  
 Cackle Fine Chick Feed, no Grit,  
 Cackle Poultry Feed, with Grit and Shell,  
 Cackle Poultry Feed, no Grit,  
 Dairymen's League Grade "A" Dairy Feed,  
 Eatall Dairy Feed,  
 Eatall Dried Buttermilk,  
 Excelsior Horse Feed,  
 Gold Flake Dairy Feed,  
 Greeno Feed,  
 Harvest Horse Feed,  
 Kingalfa Horse Feed,  
 Pioneer Hog Feed, with Dried Buttermilk,  
 Pioneer Stock Feed,  
 Pound Squab Pigeon Feed, no Grit,  
 Pound Squab Pigeon Feed, with Grit,  
 Red Comb Alfalfa Meal,  
 Red Comb Chick Mash, with Dried Buttermilk,  
 Red Comb Coarse Chick Feed, with Grit,  
 Red Comb Coarse Chick Feed, no Grit,  
 Red Comb Crate Fattener, with Dried Buttermilk,  
 Red Comb Fine Chick Feed, no Grit,  
 Red Comb Fine Chick Feed, with Grit,  
 Red Comb Mash Feed (With Dried Buttermilk & Shell),  
 Red Comb Poultry Feed, no Grit,  
 Red Comb Poultry Feed, with Grit,  
 Red Horn Calf Meal,  
 Red Horn Dairy Feed,  
 War Time Chick Scratch Feed,  
 War Time Laying Mash,  
 War Time Scratch Feed.

Hall Co., W. D., Atlanta, Ga.  
 Choic Cotton Seed Meal,  
 Good Cotton Seed Feed.

Halliday Milling Co., H. L., Cairo, Ill.  
 Halliday's Conservation Mixed Feed,  
 Halliday's Extra Choic Mixed Feed,  
 Halliday's H. Mixed Feed,  
 Halliday's Popular Mixed Feed,  
 Halliday's Special Mixed Feed,  
 Halliday's Standard Dairy Feed.

Halteman, Milton L., Philadelphia, Pa.  
 Velvet Bean Meal.

Hamlin, Dwight E., Pittsburgh, Pa.

Hamlin's Quality Feed,

Hamlin's Quality Poultry Dry Mash,

H. & S. Alfalfa Feed (for Milch Cows),

H. & S. Horse, Mule & Dairy Feed.

H. & S. Ohio Valley Dairy Feed.

Hardesty Milling Co., The, Canal Dover, Ohio.

Wheat Bran,

Wheat Middlings,

Harding, George L., Binghamton, N. Y.

Uncle Sam Harding's Granulated Milk Albumen for Poultry.

Hawk, J. H. Allentown, Pa.

Corn Chop,

Mixed Chop,

Wheat Bran,

Wheat Middlings.

Hayden, A., Elizabeth, Pa.

Corn & Oats Chop,

Standard Middlings,

Wheat Mixed Feed.

Hayes Grain & Commission Co., Little Rock, Ark.

Arkansaw Brand Cotton Seed Feed,

Supreme Brand Cottonseed Meal.

Haywood Alfalfa Warehouse Co., The, Kansas City, Mo.

Algreen Alfalfa Meal.

Hazleton Mercantile Co., Hazleton, Pa.

Choice Quality Wheat Middlings,

Corn Chop,

Cracked Corn,

Mixed Chop,

Power City Hen Food,

White Middlings.

Heacock, Harry G., Orangeville, Pa.

Mix Chop,

Pure Wheat Bran,

Pure Wheat Middlings.

Head & Co., Atlanta, Ga.

Independent Dried Beet Pulp.

Hecker-Jones-Jewell Milling Co., Buffalo, N. Y.

Choice Wheat Bran with Trace of Screenings,

Fancy White Middlings,

Mixed Feed with Mill Run Screenings,

Red Dog Flour,

Standard Middlings with Mill Run Screenings.

Heinz Co., H. J., Pittsburgh Pa.

Dried Brewers' Grains & Distillery Waste.

Hershey, J. B., Manheim, Pa.

Hershey's Grow or Bust Tankage.

Hewitt, C. G. Montgomery, Ala.

Cottonseed Meal Feed,

Montana Cottonseed Meal,

Puritan Cottonseed Meal,

Success Cottonseed Feed,

Supreme Velvet Bean Feed.

Highspire Distillery Co., Ltd., The, Highspire, Pa.

Highspire Distillery Feed.

Hirst & Begley Linseed Co., Chicago, Ill.

Hirst & Begley's Brand Linseed Meal.

H-O Company, The, Buffalo, N. Y.

The H-O Company's Algrane Horse Feed,

The H-O Company's Algrane Milk Feed,

The H-O Company's Algrane Scratching Feed,

The H-O Company's Chick Feed,

The H-O Company's Dry Poultry Mash,

The H-O Company's Horse Feed with Alfalfa,  
 The H-O Company's Horse Feed with Molasses,  
 The H-O Company's Liberty Standard Chick Feed,  
 The H-O Company's Liberty Standard Growing Mash,  
 The H-O Company's Liberty Standard Laying Mash,  
 The H-O Company's Liberty Standard Medium Cracked Grains,  
 The H-O Company's Liberty Standard Mixed Grains,  
 The H-O Company's Milk Feed with Molasses,  
 The H-O Company's New England Stock Feed,  
 The H-O Company's Poultry Feed,  
 The H-O Company's Steam Cooked Chick Feed.

Hoffer Flouring Mill Co., John, Steelton, Pa.  
 Chick Feed,  
 Hen Feed,  
 Pure Standard Middlings,  
 Wheat Bran,  
 Wheat Middlings.

Hoge & Bro., W. S., Washington, D. C.  
 Milk Maker Dairy Feed.

Hollands & Sons, Stephen, Hornell, N. Y.  
 Hollands' Dry Mash.

Hottelct Co., The, Milwaukee, Wis.  
 Dried Beet Pulp,  
 Hector Distillers' Dried Grains,  
 Holstein Brewers' Dried Grains,  
 Sugar Beet Plant Meal.

Hubbard Milling Co., Mankato, Minn.  
 Pure Bran,  
 Standard Fine Middlings,  
 Sterling Red Dog Flour,  
 White Flour Middlings.

Hubinger Brothers Co., J. C., Keokuk, Iowa.  
 KKK Corn Gluten Feed.

Hummer, W. F., Milford, N. J.  
 Corn Ear Cob Meal,  
 Hustlers' Scratch Feed,  
 Mix Feed,  
 Our Special Corn & Oats Feed,  
 Rye Bran & Middlings.

Humphreys-Godwiu Co., Memphis, Tenn.  
 Danish Brand Cottonseed Feed,  
 Dixie Brand Cottonseed Meal  
 Forfat Brand Cottonseed Meal  
 77 Cottonseed Feed.

Hunter, H., Ashland, Pa.  
 O. K. Chick Food,  
 O. K. Hen Food.

Hutter-Robinson-Wenz Milling Co., Philadelphia, Pa.  
 Certified Wheat Mixfeed with Ground Screenings not exceeding Mill Run,  
 Dreadnought Wheat Bran with Ground Screenings not exceeding Mill Run,  
 Interstate Wheat Middlings with Ground Screenings not exceeding Mill Run,  
 Ivory Wheat Middlings with Ground Screenings not exceeding Mill Run,  
 Matchless Wheat Mixfeed with Ground Screenings not exceeding Mill Run,  
 Repeater Wheat Bran with Ground Screenings not exceeding Mill Run,  
 Rustic Wheat Middlings with Ground Screenings not exceeding Mill Run,  
 Saxony Wheat Middlings with Ground Screenings not exceeding Mill Run,  
 Sunshine Wheat Mixfeed with Ground Screenings not exceeding Mill Run.

Huron Milling Co., The, Harbor Beach, Mich.  
 Jenk's Corn Gluten Feed.

Illinois Feed Mills, St. Louis, Mo.  
 O. K. Feed with Molasses,  
 Oat Feed.

Illinois Vinegar Manufacturing Co., Chicago, Ill.  
 Fleischmann's Dried Grains.

Imperial Grain & Milling Co., The, Toledo, Ohio.  
 Imperial Steam-Cooked Feed,  
 Premium Chop.

Independent Brewing Co., Pittsburgh, Pa.  
 Dried Brewers' Grains, Chartiers Valley Brewery Branch,  
 Dried Brewers' Grains, Duquesne Brewery Branch,  
 Dried Brewers' Grains, First National Brewery Branch,  
 Dried Brewers' Grains, Hill Top Brewery Branch,  
 Dried Brewers' Grains, Homestead Brewery Branch,  
 Dried Brewers' Grains, Loyalhanna Brewery Branch,  
 Dried Brewers' Grains, New Kensington Brewery Branch.

International Glue Co., Boston, Mass.  
 Red Star Brand Fish Scrap.

International Milling Co., New Prague, Minn.  
 De-pend-on Barley Feed  
 De-pend-on Rye Middlings.

International Stock Food Co., Minneapolis, Minn.  
 International Medicinal Poultry Food Tonic,  
 International Medicinal Stock Food Tonic.

International Sugar Feed Co., Minneapolis, Minn.  
 International Cattle Feed,  
 International Climax Dairy Feed,  
 International Climax Hog Feed,  
 International Dairy Feed,  
 International Dan Patch Special Horse Feed  
 International Grofast Calf Meal,  
 International Hog Meal,  
 International Jewel Dairy Feed,  
 International Pig Meal  
 International Poultry Feed,  
 International Ready Ration Dairy Feed,  
 International Special Dairy Feed.

Interstate Feed Association, Detroit, Mich.  
 Mormilk Ready Ration Dairy Feed,  
 Superior Hog Feed.

Iron City Brewery, Pittsburgh, Pa.  
 Dried Brewers' Grains.

Jamestown Electric Mills, Jamestown, N. Y.  
 Jem Chick Feed,  
 Jem Cream Dairy Ration,  
 Jem Hen Feed,  
 Jem Milk Maker,  
 Jem Poultry Mash,  
 Jem Rob Roy Dairy Feed,  
 Jem Stock Feed.

Jennison Co., W. J., Minneapolis, Minn.  
 Wheat Bran with Ground Screenings not exceeding Mill Run,  
 Wheat Flour Middlings with Ground Screenings not exceeding Mill Run.

Jersey Cereal Food Co., Cereal, Pa.  
 Corn Flake Tailings,  
 Wheat Flake Tailings.

Johnson & Co., W. B., Memphis, Tenn.  
 Imperial Brand Cottonseed Meal,  
 Perfection Brand Cottonseed Feed,  
 Supreme Brand Cottonseed Meal,  
 Winter Brand Cottonseed Feed.

Johnstown Dry Grains Co., Johnstown, Pa.  
 Dried Brewers' Grains.

Jones, G. G., Larue, Pa.  
 Wheat Middlings.

Joseph Co., Dan, Columbus, Ga.  
 Velvet Bean Feed, "Diamond Brand."

Kam Malting Co., John, Buffalo, N. Y.  
 Malt Sprouts.

Kansas Flour Mills Co., The, Kansas City, Mo.  
 Gray Shorts & Screenings,  
 Standard Shorts and Wheat Screenings,  
 Wheat Bran and Screenings,  
 Wheat Mixed Feed and Screenings,  
 White Middlings and Wheat Screenings,  
 White Shorts and Wheat Screenings.

Kansas Milling Co., The, Wichita, Kans.  
 Wheat Bran with Mill Run Screenings.

Kasco Mills, Waverly, N. Y.  
 Full Nest Mash,  
 Kasco Corn Feed Meal,  
 Kasco Scratch Grain,  
 Kasco Stock Feed,  
 Purity Chop Feed.

Kaw Milling Co., The, Topeka, Kans.  
 Kaw Kaw Pure Middlings,  
 Kaw Kaw Shorts and Screenings,  
 Kaw Kaw Wheat Bran and Screenings.

Keeton & Co., J. P., Atlanta, Ga.  
 Big Brand Choice Cottonseed Meal,  
 Southern King Brand Prime Cottonseed Meal.

Keever Starch Co., The, Columbus, Ohio.  
 Keever Gluten Feed.

Kehlor Flour Mills Co., St. Louis, Mo.  
 Kehlor's Mill Feed,  
 Neptune Middlings,  
 Palace Bran,  
 Rex Middlings.

Kelloggs & Miller, Amsterdam, N. Y.  
 Pure Old Process Oil Meal.

Kellogg & Sons, Inc., Spencer, Buffalo, N. Y.  
 Pure Old Process Cocoanut Meal.  
 Pure Old Process Linseed Oil Meal.

Kelly Milling Co., The William Hutchison, Kans.  
 Standard Wheat Shorts,  
 Wheat Bran,  
 Wheat Mixed Feed.

Kemper Grain Co., Kansas City, Mo.  
 Wheat Bran & Screenings,  
 Wheat Middlings & Screenings,  
 Wheat Mixed Feed & Screenings.

Kemper Mill & Elevator Co., Kansas City, Mo.  
 Anehor Bran with Ground Screenings not exceeding Mill Run,  
 Anchor Pure Bran,  
 Carnatiou Wheat Middlings with Ground Screenings not exceeding Mill Run,  
 Crescent Wheat Middlings with Ground Screenings not exceeding Mill Run,  
 Crescent Mixed Feed with Ground Screenings not exceeding Mill Run,  
 Diamond K Bran with Ground Screenings not exceeding Mill Run.

Kern, John B. A., Sons, Inc., Milwaukee, Wis.  
 Kern's Rye Middlings.

Keystone Commercial Co., McKeesport, Pa.  
 John-Hen Poultry Feed.

Kidder & Co., F. L., Paris, Ill.  
 Peerless Hominy Feed.

Kimball Milling Co., Kansas City, Mo.  
 Corn Bran,  
 Feed Meal,  
 Wheat Bran and Screenings,  
 Wheat Mixed Feed and Screenings,  
 Wheat Brown Shorts.

Kist, W. J. & C. S., Easton, Pa.  
 Corn Chop,  
 Mixed Feed,  
 Rye Middlings.

Klander Est., J. C., Philadelphia, Pa.  
 Dried Brewers' Grains.

Klepser Brothers, Martinsburg, Pa.  
 Cow Chop,  
 Horse Chop.

Kornfalfa Feed Milling Co., Kansas City, Mo.  
 Kaw Kaw Dairy Feed,  
 Kay Horse and Mule Feed,  
 K. C. Straight Alfalfa Molasses Feed,  
 Klimax Horse and Mule Feed,  
 Kontract Horse and Mule Feed,  
 Kornfalfa Heavy Grain Horse and Mule Feed,  
 Kornfalfa Kandy Feed,  
 Kutter Horse and Mule Feed,  
 Pioneer Alfalfa Meal,  
 Sorghum Alfalfa Molasses Feed.

Kratz, H. B., Schwenksville, Pa.  
 Ideal Chick Feed,  
 Ideal Hen Feed,  
 Ideal Mash Feed.

Krause Milling Co., Charles A., Milwaukee, Wis.  
 Badger Alfalfa Meal,  
 Badger Cream Flakes,  
 Badger Evergreen Feed,  
 Badger Fancy Mixed Feed,  
 Badger Fancy Middlings  
 Badger Hog Feed,  
 Badger Hominy Feed,  
 Badger Horse Feed,  
 Badger Maizo Red Dog Flour,  
 Badger Stock Feed,  
 Blue Top Horse Feed,  
 Blue Top Scratch Feed, no Grit,  
 Blue Top Scratch Feed, with Grit,  
 Conservation Scratch Feed, no Grit,  
 Conservation Scratch Feed, with Grit,  
 Cream City Horse Feed,  
 Cream City Scratch Feed, no Grit,  
 Cream City Scratch Feed, with Grit,  
 Crescent Horse Feed,  
 Krause Alfalfa Horse Feed,  
 Krause Chick Feed, no Grit,  
 Krause Chick Feed, with Grit,  
 Krause Calf Meal,  
 Krause Dairy Feed,  
 Krause Hog Feed,  
 Krause Mash Feed,  
 Krause Scratch Feed, no Grit,  
 Krause Scratch Feed, with Grit,  
 Krause Stock Feed,  
 Pep Feed,  
 Pul-Mor Horse Feed,  
 Sweet Cud Dairy Feed.

Kuenzel Mills Co., The, New Bremen, Ohio.  
 Pure Winter Wheat Bran,  
 Pure Winter Wheat Middlings.

Kulp & Co., J. S., Telford, Pa.  
 Old Process Oil Meal.

Kunkle's Flouring Mills, Wellsville, Pa.  
 Wheat Bran,  
 Wheat Midds.

LaFayette Corn Flour Mills, LaFayette, Ind.  
 LaFayette Hominy Feed.

LeGrange Mills, The, Red Wing, Minn.  
 Pure Wheat Bran B,  
 Pure Wheat Middlings with Ground Screenings,  
 Pure Wheat Red Dog Extra Flour.

Lake Erie Milling Co., The, Toledo, Ohio.  
 Mollett's C. O. and B. Chop,  
 Mollett's Economy Stock Feed,  
 Mollett's K. C. Chop,  
 Mollett's Park City Stock Feed,  
 Mollett's Pure Corn and Oats Chop,  
 Mollett's Scratch Feed.

Lake of the Woods Milling Co., Ltd., Montreal, Canada.  
 Wheat Bran.

Lake Shore Elevator Co., The, Cleveland, Ohio.  
 Big Squab Pigeon Feed,  
 Equality Scratch Food,  
 Golden Calf Meal,  
 Golden Chick Food,  
 Golden Growing Food,  
 Golden Hog Food.  
 Golden Laying Mash,  
 Gro-Chick Developing Food,  
 Harteno Horse Food,  
 Hart's Horse Food,  
 Hart's Special Dairy Feed,  
 Lake Shore Dairy Food,  
 Puritan Stock Food,  
 Quality Dry Laying Mash,  
 Special Scratch Food,  
 Start-Rite Chick Food,  
 Unus Horse and Mule Food,

Lancaster Mill & Elevator Co., Lancaster, Pa.  
 Challenge Alfalfa Horse Feed,  
 Conestoga Horse Feed,  
 Lancaster Dairy Feed,  
 Lancaster Horse Feed,  
 Red Rose Horse Feed,  
 Tally-Ho Horse Feed.

Landes, J. C., Collegeville, Pa.  
 Corn Bran,  
 Corn Gluten,  
 Hominy Feed,  
 Wheat Bran,  
 Wheat Middlings.

Lanier Brothers, Nashville, Tenn.  
 Canary Brand High Grade Cottonseed Meal,  
 Durham Brand High Grade Cottonseed Feed,  
 Holstein Cottonseed Feed,  
 Jersey Brand Cottonseed Meal.

Larabee Flour Mills Corp., The, Hutchison, Kans.  
 Barley Mixed Feed,  
 Red Dog Flour,  
 Standard Wheat Shorts,  
 Wheat Bran,  
 Wheat Mixed Feed.

Larrove Milling Co., The, Detroit, Mich.  
 Dried Beet Pulp,  
 Larro-Feed,  
 Larro-Mash,  
 Larrove's Big Six Complete Dairy Feed,  
 Larrove Hog Feed,  
 Log Cabin Horse Feed,  
 Log Cabin Scratch Feed,  
 Velvet Bean Feed,  
 Wolverine Corn Feed Meal.

Laudenslager, M. M., Macungie, Pa.  
 Corn Chop,  
 Mix Chop.

Lavery's Sons, J. H., Franklin, Pa.  
 Franklin Horse Feed.

Lawrenceburg Roller Mills Co., Lawrenceburg, Ind.

Golden Bull Bran,  
Golden Bull Middlings,  
Golden Bull Mixed Feed,  
Snowflake Bran,  
Snowflake Corn Feed Meal,  
Snowflake Barley Mixed Feed,  
Snowflake Middlings,  
Snowflake Mixed Feed,  
Snowflake Rye Middlings.

LeBar, Frank, Stroudsburg, Pa.

Horse Feed,  
Mixed Feed,  
Mixed Horse Feed,  
Serateh Feed,

Lee Co., George H., Omaha, Neb.

Lee's Baby Chick Food,  
Lee's Egg Maker.

Lee Flour Mills Co., The H. D., Salina, Kans.

Wheat Bran and Screenings,  
Wheat Mixed Feed and Screenings,  
Wheat Shorts.

Levan & Sons, Columbia, Pa.

L. & S. Chick Feed,  
L. & S. Hen Feed.  
L. & S. Poultry Mash.

Lewis & Bros. Co., John T., Philadelphia, Pa.

Linseed Oil Cake.

Listman Mill Co., LaCrosse, Wis.

Elmeo Bran,  
Elmeo Mixed Feed,  
Elmeo Red Dog Flour  
Elmeo Std. Midds.,  
Elmeo White Midds.,  
Listman's Barley Mixed Feed.

Lloyd, C. E., Washington Court House, Ohio.

Elko Chick Feed,  
Elko Alfalfa-Molasses Horse Feed,  
Elko Scratches Feed.

London Mill Co., London, Ohio.

Long's Wheat Bran-Corn Bran,  
Long's Pure Wheat Middlings.

Loudonville Mill & Grain Co., The, Loudonville, Ohio.

Barley Feed,  
Loudonville Bran,  
Loudonville Chop,  
Loudonville Corn Feed,  
Loudonville Middlings,  
Loudonville Rye Middlings.

Loughrey Brothers Milling & Grain Co., Monticello, Ind.

Loughrey's Corn and Oats Chop,  
Loughrey's Mixed Feed with Screenings not exceeding Mill Run,  
Loughrey's Wheat Middlings and Screenings.

Louisiana State Rice Milling Co., Inc., New Orleans, La.

Lastarmeo Pearling Cone,  
Rice Meal,  
Rice Polish.

Louisville Milling Company, Louisville, Ky.

Barley Screenings.

Lovitt & Co., L. B., Memphis, Tenn.

Lovitt Brand Cottonseed Meal,  
Lovitt Cottonseed Feed,  
Memphis Brand Cottonseed Meal,  
Thirty-Six Brand Cottonseed Feed.

Luekenbach, D. & A., Bethlehem, Pa.

Horse Chop,  
Laying Hen Scratch Feed,  
Mixed Chop.

Luverne Oil Mill, Luverne, Ala.  
Velvet Bean Feed.

Lyle & Lyle, Huntsville, Ala.  
Economy Cottonseed Feed.

McCall's Sons, T. Frank, Chester, Pa.  
McCall's Special Horse Feed.

McFall & Moser, Flicksville, Pa.  
Horse Feed,  
Mixed Feed.

McMurtrie Milling Co., Belvidere, N. J.  
Cob Meal,  
Horse Feed,  
Rye Middlings,  
Wheat Bran,  
Wheat Middlings.

Macneal Co., Walter F., Baltimore, Md.  
Alfalfa Meal,  
Cottonseed Feed,  
Choice Cottonseed Meal,  
Dried Brewers' Grains,  
Dried Distillers' Grains,  
Dried Malt Sprouts,  
Gluten Feed,  
Hominy Feed,  
Old Process Linseed Meal,  
Prime Cottonseed Meal.

Maney Milling Co., Omaha, Nebr.  
Pure Wheat Shorts,  
Wheat Bran with Ground Screenings not exceeding Mill Run.

Mann & Allshouse, Easton, Pa.  
Chick Food,  
Ground Mixed Feed,  
Mixed Grains: Poultry Feed,  
Poultry Mash,  
Rye Bran,  
Rye Middlings,  
Wheat Bran,  
Wheat Middlings.

Mann Brothers Co., Inc., The, Buffalo, N. Y.  
Pure Old Process Linseed Oil Meal.

Mansfield Milling Co., Mansfield, Ohio.  
Triangle Flour Middlings,  
Triangle Rye Mixed Feed,  
Triangle Standard Middlings,  
Triangle Wheat Bran with Ground Screenings not exceeding Mill Run,  
Triangle Wheat Mill Run with Ground Screenings not exceeding Mill Run,  
Triangle Wheat Middlings with Ground Screenings not exceeding Mill Run.

Marco Mills, Pine Bluff, Ark.  
Corn Feed Meal.

The Marion National Mill Co., Marion, Ohio.  
Middlings,  
Wheat Bran and Screenings not exceeding Mill Run.

Maritime Trading Corporation, New York, N. Y.  
Bull Brand Dairy Ration.

Marshall Milling Co., Marshall, Minn.  
Red Dog Flour,  
Wheat Bran with Mill Run of Screenings,  
Wheat Shorts with Mill Run of Screenings,  
White Wheat Middlings.

Martin & Co., Altoona, Pa.

Corn Chop,  
Corn and Oat Chop,  
Liberty Standard Chick Feed,  
Liberty Standard Growing Mash,  
Liberty Standard Laying Mash,  
Liberty Standard Medium Craeked Grain,  
Liberty Standard Scratch Feed,  
Martin's Poultry Mash,  
Martin's Serateh Feed.

Masontown Brewing Co., Masontown, Pa.  
Brewers' Dried Grains.

Mather Brothers, Greenville, Pa.

Bran,  
Buckwheat Middlings,  
Corn and Oats Chop,  
Corn Meal,  
Cracked Corn,  
Middlings,

Matthews & Sons, Inc., C. P., Scranton, Pa.

Best Mixed Feed for Cows,  
Best Mixed Grain for Chickens,  
Best Mixed Feed for Horses,  
Chicken Feed,  
Mixed Feed,  
Poultry Mash.

Mauser & Cressman, Catasauqua, Pa.

Chick Feed,  
Mixed Chop,  
Poultry Mash,  
Rye Bran and Middlings,  
Scratch Feed,  
Wheat Bran  
Wheat Middlings.

Mauser Mill Co., Treichlers, Pa.

Chick Feed,  
Corn and Oats Chop,  
Hazleton Dairy Feed,  
Hazleton Dry Mash,  
Hazleton Horse Feed,  
Hazleton Mix Chow,  
Hen Feed,  
Pure Wheat Bran,  
Red Star Mix Chop,  
Wheat and Rye Red Middlings,  
Wheat and Rye White Middlings.

Mayflower Mills, Fort Wayne, Ind.

Mayflower Bran,  
Mayflower Middlings,  
Mayflower Red Dog Flour.

Mead, Johnson & Co., Evansville, Ind.  
Mead's Hominy Feed.

Melrose Milling Co., Melrose, Minn.  
Fancy Bran,  
Middlings.

Memphis Cotton Hull & Fibre Co., Memphis, Tenn.  
Cyclone Cottonseed Feed,  
Vaca Dairy Feed.

Mennel Milling Co., The, Toledo, Ohio.  
Mennel's Corn and Oats Chop,  
Mennel's Craeked Corn,  
Mennel's Fancy Bran,  
Mennel's Mainspring Feed,  
Mennel's Middlings,  
Mennel's Unbolted Corn Meal,  
Mennel's Winter Mixed Feed.

Meridian Grain & Elevator Co., Meridian, Miss.  
Tip Top Choice Cottonseed Meal,  
Tip Top Good Cottonseed Feed,  
Tip Top Prime Cottonseed Meal.

Metzgar Seed & Oil Co., The, Toledo, Ohio.  
Old Process Oil Meal.

Meyer Malting Co., George J., Buffalo, N. Y.  
Malt Sprouts.

Midland Linseed Products Co., Minneapolis, Minn.  
Argentine Brand Pure Old Process Ground Linseed Cake.  
Old Process Ground Linseed Cake.

Midland Milling Co., Kansas City, Mo.  
Brown Shorts and Screenings not exceeding Mill Run.  
Gray Shorts and Screenings not exceeding Mill Run.  
Wheat Bran and Ground Screenings not exceeding Mill Run,  
Wheat Mixed Feed with Ground Screenings not exceeding Mill Run,  
Wheat Shorts and Ground Wheat Screenings not exceeding Mill Run.

Millard & Scureman, Kingston, Pa.  
Blue Ribbon Chick Feed,  
Blue Ribbon Poultry Feed,  
Blue Ribbon Poultry Mash,  
Chop,  
Hen Food,  
Mixed Poultry Feed,  
Red Feather Poultry Feed.

Millbourne Mills, Philadelphia, Pa.  
Millbourne Middlings with Ground Screenings not exceeding Mill Run,  
Millbourne Pure Bran with Ground Screenings not exceeding Mill Run.

Miller & Son, J. B., New Danville, Pa.  
Miller's Poultry Mash.

Mills of Albert Lea, Albert Lea, Minn.  
Albert Lea Red Dog Flour,  
Albert Lea Rye Middlings,  
Albert Lea Wheat Bran,  
Albert Lea Wheat Flour Middlings with Ground Screenings not exceeding  
Mill Run,  
Albert Lea Wheat Standard Middlings with Ground Screenings not exceeding  
Mill Run.

Miner-Hillard Milling Co., Wilkes-Barre, Pa.  
Buckwheat Middlings,  
Colonial Middlings,  
Mihimico Dairy Feed,  
Mihimico Stock Feed,  
Mixed Chicken Feed,  
Mixed Chop,  
No. 1 Chop,  
No. 1 Scratch Feed,  
Poultry Mash,  
Rye Middlings,  
Special Scratch Feed,  
Steam Cooked Flakeline,  
Steam Cooked Hominy Feed,  
Wheat Bran,  
Wheat Middlings.

Minnesota Linseed Oil Co., Minneapolis, Minn.  
Ground Linseed Cake (Old Process).

Montgomery & Co., C. L., Memphis, Tenn.  
Star Brand Cottonseed Feed.

Morris & Company, Chicago, Ill.  
Big Brand Meat Scraps,  
Big Brand Poultry Bone,  
Big Fifty Meat Meal Digester Tankage,  
Big Forty Meat Meal Digester Tankage,  
Big Sixty Meat Meal Digester Tankage.

Morrow Milling Company, Produce Exchange, N. Y.  
Reground Oat Hulls (Oat-Feed).

Moseley & Motely Milling Co., Rochester, N. Y.  
Big B Wheat Bran,  
Wheat Middlings with Ground Screenings not exceeding Mill Run.

Mount Holly Feed & Grain Co., The, Mount Holly Springs, Pa.

Holly-O Pure Calf Meal,  
 Holly-O Pure Cane Molasses Dairy Feed No. 1,  
 Holly-O Cane Molasses Dairy Feed No. 2.  
 Holly-O Pure Cane Molasses Dry Mash Poultry Feed,  
 Holly-O Pure Cane Molasses Horse and Mule Feed,  
 Holly-O Pure Cane Molasses Swine Feed.

Moyer & Son, Souderton, Pa.

Mixed Chop for Horses,  
 Puritan Poultry Mash,  
 Specialty Hen Feed,  
 Speciaalty Poultry Mash,  
 Specialty Seratch Feed.

Mystic Milling & Feed Co., Rochester, N. Y.

Mystic Corn Feed Meal,  
 Mystic Feed for Hens, Cattle and Swine,  
 Mystic Growing Mash,  
 Mystic Hominy Feed,  
 Mystic Laying Mash,  
 Mystic Mixed Feed,  
 Mystic Wheat Bran.

National Feed Co., St. Louis, Mo.

Corn Bran,  
 Cottonseed Feed,  
 Hominy Feed,  
 Oat Feed,  
 Prime Cottonseed Meal,  
 Pure Alfalfa Meal,  
 Pure Wheat Bran,  
 Wheat Bran with Screenings not exceeding Mill Run,  
 Wheat Middlings with Ground Screenings not exceeding Mill Run,  
 Wheat Mixed Feed with Screenings not exceeding Mill Run.

National Feed Mills Co., The, Yellow Springs, Ohio.

Golden Chick Feed, no Grit,  
 Golden Hen Feed, no Grit,  
 Golden Mash Feed,  
 Natco Dairy Feed,  
 Silver Hen Feed, no Grit,  
 Silver Hen Feed, with Grit.

National Milling Co., Minneapolis, Minn.

Bran,  
 Choice Middlings,  
 Fancy Middlings,  
 Red Dog Flour.

National Milling Co., The, Toledo, Ohio.

Barley Feed.

National Oats Co., St. Louis, Mo.

Corno Chick Feed,  
 Corno Dairy Feed,  
 Corno Hen Feed,  
 Corno Horse and Mule Feed,  
 Corno Stock Feed,  
 Corno Sweet Feed,  
 Diamond "C" Chick Feed,  
 Diamond "C" Hen Feed,  
 Diamond "C" Hen Feed, with Grit,  
 Diamond "C" Sweet Feed,  
 Navajo Chick Feed,  
 Navajo Feed,  
 Navajo Hen Feed,  
 Navajo Sweet Feed,  
 Noco Chick Feed,  
 Noco Hen Feed,  
 Noco Horse and Mule Feed,  
 Noco Stock Feed,  
 Noco Sweet Feed,  
 Nuco Dairy Feed,  
 Nutro Chick Feed,  
 Nutro Hen Feed,  
 Nutro Hen Feed, with Grit,

Nutro Sweet Feed,  
 Pawnee Chick Feed,  
 Pawnee Feed,  
 Pawnee Hen Feed,  
 Pawnee Sweet Feed.

New Prague Flouring Mill Co., New Prague, Minn.  
 Seal of Minnesota Wheat Bran with Ground Screenings not exceeding Mill Run,  
 Seal of Minnesota Wheat Flour Middlings,  
 Seal of Minnesota Wheat Germ Middlings,  
 Seal of Minnesota Wheat Low Grade Flour,  
 Seal of Minnesota Wheat Middlings,  
 Seal of Minnesota Wheat Special Middlings,  
 Seal of Minnesota Wheat Standard Middlings.

Newsome Feed & Grain Co., The, Pittsburgh, Pa.  
 Palmo Middlings,  
 Palmo Mixed Feed.

Newton Mills, Mansfield, Pa.  
 Dry Mash for Poultry,  
 Mixed Hen Feed.

New Ulm Roller Mill Co., New Ulm, Minn.  
 Ground Corn and Oats,  
 Hominy Feed,  
 Rye Middlings,  
 Rye Red Dog,  
 Wheat Bran,  
 Wheat Middlings.

New York Alfalfa Mills, Caledonia, N. Y.  
 Genesee Valley Alfalfa Meal.

Nickel Plate Elevator Co., Cleveland, Ohio.  
 Alfalfa Molasses Horse Feed,  
 Economy Digester Tankage,  
 Economy Mash Feed,  
 Economy Molasses Horse Feed,  
 Economy Meat Scraps  
 Economy Pigeon Feed,  
 Economy Scratch Feed,  
 Economy Scratch, with Grit,  
 Imperial Growing Feed,  
 Imperial Molasses Horse Feed,  
 Imperial Pigeon Feed,  
 Imperial Scratch Feed,  
 Special Imperial Chick Feed.

Noblesville Milling Co., Noblesville, Ind.  
 N. M. Co.'s Barley Mixed Feed with Ground Barley Screenings,  
 N. M. Co.'s Mixed Feed.

Northern Illinois Cereal Co., Lockport, Ill.  
 Reground Oat Feed.

Northwestern Consolidated Milling Co., The, Minneapolis, Minn.  
 Barley Mill Feed with Ground Screenings not exceeding Mill Run,  
 Planet Feed,  
 Pure Wheat Bran,  
 Rye Middlings with Ground Screenings not exceeding Mill Run,  
 Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,  
 Wheat Mixed Feed composed of Wheat Bran, Flour Middlings and Ground  
 Screenings not exceeding Mill Run,  
 Wheat Standard Middlings with Ground Screenings not exceeding Mill Run,  
 XXX Comet Red Dog Flour.

Northwestern Milling Co., Little Falls, Minn.  
 Bran,  
 Fancy Middlings,  
 Flour Middlings,  
 Low Grade Flour,  
 Mixed Feed.

Northwestern Yeast Co., Chicago, Ill.  
 Corn Bran,  
 Rye Feed.

- Norton & Co., Willis, Topeka, Kans.  
 Wheat Bran and Sereenings,  
 Wheat Shorts and Sereenings.
- Nowak Milling Corporation, Buffalo, N. Y.  
 Domino Alfalfa Meal,  
 Domino Butterine Dairy Feed,  
 Domino Calf Meal,  
 Domino Chick Feed,  
 Domino Creamery Feed,  
 Domino Cream-O-Lene Dairy Ration,  
 Domino Developing Feed,  
 Domino Growing Mash,  
 Domino Horse Feed with Alfalfa,  
 Domino Laying Mash,  
 Domino Milk Maker Dairy Feed,  
 Domino Pigeon Feed,  
 Domino Serateh Feed,  
 Domino Stoek Feed,  
 Domino Vim-O-Lene Horse Feed,  
 Fidelity Horse Feed,  
 Fidelity Serateh Feed,  
 Fidelity Stoek Feed,  
 Lay-Egg-O Laying Mash,  
 Marathon Serateh Feed,  
 Union Dairy Feed.
- O'Brien Estate, Owen, Philadelphia, Pa.  
 Mixed Feed.
- Oeonec Milling & Grain Co., Dublin, Ga.  
 Velvet Bean Feed.
- Oil Seeds Co., New York, N. Y.  
 Coeo Brand Cocoanut Oil Meal.
- O. K. Company, The, New York, N. Y.  
 Puritan Chick Food.
- Omaha Alfalfa Milling Co., Omaha, Nebr.  
 Al-Corn-O Horse Feed,  
 Alfalfa Meal,  
 Alfalfa Syr. Feed,  
 Alfalmo,  
 Baby Chick Feed,  
 Beauty Dairy Feed,  
 Big Chick Developing Feed,  
 Cream Alfalfa Dairy No. 1,  
 Cream Alfalfa Dairy No. 2,  
 Cream Alfalfa Dairy No. 3,  
 Eggs-er-size Serateh Feed,  
 Evergreen Horse Feed,  
 Green Meadow Dairy Feed,  
 Oat Peerless Horse Feed,  
 Omaha Speciai Horse Feed,  
 Peerless Horse Feed,  
 Peerless Oat Feed,  
 Perfection Horse Feed.
- Omaha Flour Mill Co., Omaha, Nebr.  
 Omar Pure Wheat Bran,  
 Omar Wheat Shorts and Ground Wheat Sereenings not exceeding 8 per eent.
- Osakis Milling Co., Osakis, Minn.  
 Bran,  
 Middlings.
- Park & Pollard Co., of Ill., The, Chieago, Ill.  
 Park & Pollard Chop,  
 Park & Pollard Cottonseed Feed.
- Park & Pollard Co., The, Boston, Mass.  
 Baby Buster Chick Feed,  
 Growing Feed,  
 Intermediate Chick Feed,  
 Lay or Bust Dry Mash,  
 Overall Corn  $\frac{1}{2}$  and  $\frac{1}{2}$  Oats,  
 Park & Pollard Alfalfa,

Park & Pollard Co., Oswego Meal,  
 Pontiac Old Process Linseed Oil Meal,  
 Pontiac Scratch Feed,  
 Red Ribbon Chick Feed,  
 Red Ribbon Scratch Feed,  
 Screened Scratch Feed,  
 Stevens "44" Dairy Ration.

Patent Cereal Co., The, Geneva, N. Y.  
 Hominy Feed.

Patterson Milling Co., Saltsburg, Pa.  
 Pure Wheat Bran with Ground Screenings not exceeding Mill Run,  
 Pure Wheat middlings with Ground Screenings not exceeding Mill Run.

Patteson & Co., G. E., Memphis, Tenn.  
 Crown Horse Feed,  
 Crown Horse and Mule Feed,  
 Dinnertime Hog Feed,  
 Novo Stock Feed,  
 Porko Hog Feed,  
 Quarto Dairy Feed.

Penn Grains & Feed Co., Philadelphia, Pa.  
 Malt Sprouts,  
 Peerless Brewers' Dried Grains,  
 Penngrain Brewers' Dried Grains.

Penwiek Distillery, The, Cheswick, Pa.  
 Distillers' Dried Grains.

Perot's Sons' Malting Co., The Francis, Philadelphia, Pa.  
 Malt Sprouts.

Perry, F. V., Scottdale, Pa.  
 Alfalfa Horse Feed,  
 Mixed Chop.

Peters' Mill Co., M. C., Omaha, Nebr.  
 Peters' Alfalfa Queen Alfalfa Flour,  
 Peters' Alfalfa Queen Dairy Feed,  
 Peters' Alfal-Fat Alfalfa and Molasses Feed,  
 Peters' Arab Horse Feed,  
 Peters' Corn Feed Meal,  
 Peters' High Score Alfalfa and Molasses Feed,  
 Peters' Hog Profit Swine Feed,  
 Peters' June Pasture Alfalfa and Molasses Feed,  
 Peters' King Corn Horse and Mule Feed,  
 Peters' Lucern Choice Alfalfa Meal,  
 Peters' Rabbit Mule Feed,  
 Peters' Red Feather Poultry Chick Feed,  
 Peters' Red Feather Poultry Mash Feed,  
 Peters' Red Feather Poultry Scratch Feed,  
 Peters' Re-Peter Dairy Feed,  
 Peters' Re-Peter Cattle Fatteuer,  
 Peters' Re-Peter Horse Feed,  
 Peters' Re-Peter Poultry Scratch Feed,  
 Peters' Sell-A-Gen Horse and Mule Feed,  
 Peters' Submilk Calf Feed.

Pfeffer Milling Co., Lebanon, Ill.  
 Pfeffer's Coru Brau,  
 Pfeffer's Hominy Feed,  
 Pfeffer's Wheat Bran,  
 Pfeffer's Wheat middlings with Ground Screenings not exceeding Mill Run.

Phelps & Sibley Co., Cuba, N. Y.  
 Phelps & Sibley Co.'s Fancy Wheat Bran with Ground Screenings not exceeding Mill Run,  
 Phelps & Sibley Co.'s Fancy Wheat middlings with Ground Screenings not exceeding Mill Run,  
 Phelps & Sibley Co.'s Favorite Mixed Grains,  
 Phelps & Sibley Co.'s Favorite Pigeon Mixture,  
 Phelps & Sibley Co.'s Favorite Poultry Mash,  
 Phelps & Sibley Co.'s Scratch Grains,  
 Phelps & Sibley Co.'s White P. & S. Feed,  
 Phelps & Sibley Co.'s Yellow Corn Meal,  
 Phelps & Sibley Co.'s Yellow P. & S. Feed.

Philadelphia Seed Co., Inc., Philadelphia, Pa.

Government Wheatless Scratch,  
Liberty Standard N. A. Competition Scratch Feed,  
Liberty Standard N. A. Laying Mash Feed,  
Liberty Standard Purgrain Chick Feed,  
N. A. Competition Fish Mash Feed,  
N. A. Competition Scratch Feed,  
Purgrain Chick Developing Mash,  
Purgrain Chick Developer No. 1,  
Purgrain Chick Developer No. 2,  
Purgrain Chick Starter No. 1,  
Purgrain Chick Starter No. 2,  
Purgrain Duck Mash,  
Purgrain Laying Mash Feed,  
Purgrain Scratch Poultry Feed No. 1,  
Purgrain Scratch Poultry Feed No. 2,  
Purgrain Scratch Pigeon Feed,  
Special Fanciers Pigeon Feed No. 1,  
Special Fanciers Pigeon Feed No. 2,  
Special Fanciers Pigeon Feed No. 3,  
Special Fanciers Pigeon Feed No. 4,

Piel Brothers Starch Co., Indianapolis, Ind.

P. Bro. Corn Gluten Feed.

Pillsbury Flour Mills Co., Minneapolis, Minn.

Barley Feed,  
Barley Screenings,  
Pillsbury's Barley Mill Feed with Ground Barley Screenings not exceeding Mill Run,  
Pillsbury's Corn Mill Feed with Ground Corn Screenings not exceeding Mill Run,  
Pillsbury's Durum Wheat Bran with Ground Screenings not exceeding Mill Run,  
Pillsbury's Durum Wheat Standard "B" Middlings with Ground Screenings not exceeding Mill Run,  
Pillsbury's Fancy Wheat Mixed Feed with Ground Screenings not exceeding Mill Run,  
Pillsbury's Rye Middlings with Ground Screenings not exceeding Mill Run,  
Pillsbury's Wheat "A" Middlings with Ground Screenings not exceeding Mill Run,  
Pillsbury's Wheat Bran with Ground Screenings not exceeding Mill Run,  
Pillsbury's Standard Middlings (B) with Ground Screenings not exceeding Mill Run.

Pittsburgh Brewing Co., Pittsburgh, Pa.

Dried Brewers' Grains.

Piqua Milling Co., The, Piqua, Ohio.

Wheat Bran,  
Wheat Middlings.

Pittsburgh Provision & Packing Co., Pittsburgh, Pa.

Beef Meal,  
Beef Scrap,  
Digestible Tankage,  
Dried Blood,  
Poultry Bone.

Plant Milling Co., George P., St. Louis, Mo.

"P" Wheat Bran with Screenings not exceeding Mill Run,  
"P" Wheat Middlings with Screenings not exceeding Mill Run,  
"P" Wheat Mixed Feed with Screenings not exceeding Mill Run.

Plymouth Milling Co., LeMars, Iowa.

Plymouth Pure Hominy Feed.

Poe Cottonseed Products Co., Memphis, Tenn.

Butter Cup Brand Prime Cottonseed Meal,  
Butternut Brand Prime Cracked Cottonseed Cake,  
Chosen Soya Bean Oil Meal,  
Dandelion Brand Choice Cottonseed Meal,  
Golden Rod Brand Cottonseed Feed,  
Golden Rod Cracked Cottonseed Cake,  
Gold Dust Brand Cottonseed Feed,  
Nugget Brand Choice Cracked Cottonseed Cake,

Poco Brand Ordinary Cottonseed Feed,  
 Primrose Brand Choice Cottonseed Meal,  
 Raven Brand Cottonseed Feed,  
 Velvet Bean Feed Meal,  
 Vivo Brand Cottonseed Feed.

Postum Cereal Co., Battle Creek, Mich.  
 Burt's Hominy Feed.

Pottsville Feed Co., Pottsville, Pa.  
 Dried Brewers' Grains.

Prairie State Milling Co., Chicago, Ill.  
 American Horse Feed,  
 Emerald Horse Feed,  
 Garland Chick Feed, no Grit,  
 Garland Chick Feed, with Grit,  
 Garland Scratch Feed, no Grit,  
 Garland Scratch Feed, with Grit,  
 Greenfield Alfalfa and Molasses Feed,  
 Prairie State Alfalfa Meal,  
 Prairie State Chick Feed, Coarse, with Grit,  
 Prairie State Chick Feed, with Grit,  
 Prairie State Chick Feed, no Grit,  
 Prairie State Corn Feed Meal,  
 Prairie State Chop Feed,  
 Prairie State Pigeon Feed, with Grit,  
 Prairie State Poultry Mash,  
 Prairie State Scratch Feed, no Grit,  
 Prairie State Scratch Feed, with Grit,  
 Red Crown Scratch Feed, no Grit,  
 Red Crown Scratch Feed, with Grit.

Pratt Food Co., Philadelphia, Pa.  
 Pratt's Baby Chick Food.

Procter & Gamble Distributing Co., The, Cincinnati, Ohio.  
 P. & G. Copra Oil Meal.

Purity Oats Co., Davenport, Iowa.  
 Iowa Chick Feed, no Grit,  
 Iowa Chick Feed, with Grit,  
 Iowa Dairy Feed,  
 Iowa Horse Feed,  
 Iowa Scratch Feed, no Grit,  
 Iowa Scratch Feed, with Grit,  
 Loyal Stock Feed,  
 Purity Oat Feed,  
 Purity Reground Oat Hulls,  
 Scattergood Chick Feed, no Grit,  
 Scattergood Chick Feed, with Grit,  
 Scattergood Dairy Feed,  
 Scattergood Horse Feed,  
 Scattergood Poultry Mash,  
 Scattergood Reground Oat Feed,  
 Scattergood Scratch, no Grit,  
 Scattergood Scratch, with Grit,  
 Scattergood Stock Feed,  
 Tom Boy Chick Feed, no Grit,  
 Tom Boy Chick Feed, with Grit,  
 Tom Boy Dairy Feed,  
 Tom Boy Poultry Mash,  
 Tom Boy Scratch Feed,  
 Tom Boy Stock Feed.

Quaker Oats Co., The, Chicago, Ill.  
 American Hen Scratch Grains, with Grit,  
 Big Egg Scratch Grains, with Grit,  
 Blue Ribbon Scratch Grains,  
 Boss Feed,  
 Buckeye Feed,  
 C. O. & B. Feed,  
 Early Bird Scratch Grains, with Grit,  
 Excelsior Feed,  
 Pansy Scratch Grains,  
 Quaker Poultry Mash,  
 Quaker Scratch Grains,  
 Red Star Feed,  
 Schumacher Calf Meal,

Schumacher Feed,  
 Schumacher Poultry Mash,  
 Schumacher Scratch Grains,  
 Schumacher Special Horse Feed,  
 Sterling Feed.  
 Sterling Horse Feed,  
 Sterling Scratch Feed,  
 Victor Feed,  
 Vim Feed,  
 White Diamond Feed,  
 Yellow Hominy Feed.

Rachau, J. L., Clintondale, Pa.  
 Corn and Oats Chop,  
 Hen Food,  
 Mixed Chop,  
 Pure Corn and Cob Meal,  
 Pure Corn Chop,  
 Wheat Bran,  
 Wheat Middlings,

Ralston Purina Co., St. Louis, Mo.  
 Good Luck Dairy Feed,  
 Good Luck Feed with Molasses,  
 O. K. Feed with Molasses,  
 Protene Dairy Feed,  
 Purina Calf Chow,  
 Purina Chick Feed,  
 Purina Chicken Chowder with Charcoal not over 1 per cent.,  
 Purina Fatena Feed,  
 Purina Cow Chow Feed,  
 Purina Dairy Feed,  
 Purina Fatena Feed with Charcoal,  
 Purina Feed with Molasses,  
 Purina O'Molene Feed,  
 Purina Pig Chow with Charcoal,  
 Purina Pigeon Feed,  
 Purina Scratch Feed,  
 Star Feed with Molasses,  
 Star Stock Feed.

Ramsey, J. D., Pittsburgh, Pa.  
 Ramsey's Feeding Tankage.

Rankin & Co., M. G., Milwaukee, Wis.  
 Barley Middlings with Ground Screenings not to exceed Mill Run,  
 Barley Screenings with Ground Screenings not to exceed Mill Run,  
 Cottonseed Meal,  
 Durham Dried Brewers' Grains,  
 Flour Middlings,  
 Jersey Hominy Feed,  
 Jersey Malt Sprouts,  
 Mixed Feed with Ground Screenings not to exceed Mill Run,  
 Rye Middlings with Ground Screenings not exceeding Mill Run,  
 Wheat Bran with Ground Screenings not exceeding Mill Run,  
 Wheat Middlings with Ground Screenings not exceeding Mill Run.

Rawleigh Medical Co., The, W. T., Freeport, Ill.  
 Rawleigh's Poultry Powder,  
 Rawleigh's Stock Tonic.

Reading Bone Fertilizer Co., Reading, Pa.  
 Reading Poultry Bone,  
 Reading Poultry Meat.

Red Star Milling Co., The, Wichita, Kans.  
 Wheat Bran and Screenings,  
 Wheat Mixed Feed and Screenings,  
 Wheat Shorts and Screenings.

Red Wing Linseed Co., Red Wing, Minn.  
 Red Wing Old Process Ground Oil Cake.

Red Wing Milling Co., Red Wing, Minn.  
 Bixota Bran with Ground Screenings,  
 Bixota Flour Middlings,  
 Bixota Red Dog Flour,  
 Bixota Standard Middlings.

Reeee & Greenly, Millville, Pa.  
Buckwheat Feed.

Reichard, Robert A., Allentown, Pa.  
Reichard's Beef Granules,  
Reichard's Beef Meal,  
Reichard's Blood Meal,  
Reichard's Bone Granules,  
Reichard's Bone Meal,  
Reichard's High Grade Beef Serap,  
Reichard's Standard Beef Serap,  
Reichard's 40 Per Cent. Digester Tankage,  
Reichard's 60 Per Cent. Digester Tankage.

Reis, A. F., Hanover, Pa.  
Hog Tankage.

Replogle, U. E., Woodbury, Pa.  
Bran,  
Corn Crop,  
Horse Chop,  
Mixed Feed,  
Rye Chop,  
Wheat Middlings.

Reymann & Co., Paul O., Chieago, Ill.  
Poro High Protein Tankage.

Robbins Milling Co., Wilkes-Barre, Pa.  
A Chop,  
B Chop,  
Luzerne Capitol Poultry Mash,  
Luzerne Capitol Stock Feed.

Robin Hood Mills, Ltd., Moose Jaw, Sask., Canada.  
Robin Hood Bran,  
Robin Hood Middlings with Ground Sereenings not exceeding Mill Run.  
Robin Hood Oat Feed.

Robinson, Jr., George B., New York, N. Y.  
Cottonseed Feed,  
Cottonseed Meal,  
Hominy Feed,  
Linseed Meal.

Rockwell, G. G., North Baltimore, Ohio.  
Bran,  
Middlings.

Rodgers, John T., McVeytown, Pa.  
Brau,  
Corn Chop,  
Middlings.

Rosekrans-Snyder & Co., Philadelphia, Pa.  
Brewers' Dried Grains,  
Corn Bran,  
Hominy,  
Jenk's Gluten,  
Pilsner Brewers' Dried Grains,  
Wheat Bran,  
Wheat Middlings.

Royal Milling Co., Great Falls, Mont.  
Royal Bran,  
Royal Mixed Feed,  
Royal Standard Middlings.

Russell-Miller Milling Co., Minneapolis, Minn.  
Bran.  
Flour Middlings,  
Occident Wheat Feed,  
Red Dog Flour,  
Rye Middlings,  
Standard Middlings,  
White Corn Mill Feed,  
Yellow Corn Mill Feed.

- Russia Cement Co., Gloucester, Mass.  
Chiek-Chuk (Fish Meal).
- Ryde & Company, Chieago, Ill.  
Ryde's Cream Calf Meal.
- Ryder, J. O., Matamoras, Pa.  
Caekle Brand Meat and Bone Seraps.
- Ryon, J. W., Elmira, N. Y.  
Buekwheat Middlings,  
Cow-N-S-Que Dairy Feed,  
Co-W-N-S-K-Ration,  
Pure Wheat Bran,  
Pure Wheat Middlings.
- Saeger Milling Co., Allentown, Pa.  
Hanover Serateh Feed,  
Mix Chop,  
Pure Corn Chop,  
Wheat Bran,  
Wheat Middlings.
- Saginaw Milling Co., Saginaw, Mich.  
Ogemaw A. A. Pigeon Feed,  
Red Hen Chiek Starter,  
Red Hen Poultry Mash,  
Red Hen Serateh Feed,  
Wolverine Scratches Feed.
- Sauers Milling Co., Evansville, Ill.  
Winter Wheat Bran with Ground Screenings not exceeding Mill Run.  
Winter Wheat Shipstuff with Ground Screenings not exceeding Mill Run.
- Saxony Mills, St. Louis, Mo.  
Choee Wheat Middlings,  
Mixed Feed with Ground Sereenings not exeeding Mill Run,  
No. 1 Mrown Wheat Middlings,  
Wheat Bran with Ground Sereenings not exeeding Mill Run.
- Searlett & Co., William G., Baltimore, Md.  
Oriole Brand AA Pigeon Feed,  
Oriole Brand AAA Pigeon Feed,  
Oriole Brand Beef Scraps,  
Oriole Brand Chiek Developer,  
Oriole Brand Chiek Starter,  
Oriole Brand Dry Mash,  
Oriole Brand Meat Meal,  
Oriole Brand Seratch Feed,  
Oriole Brand Special Pigeon Feed.
- Seattergood & Co., S. F., Philadelphia, Pa.  
Barley Feed,  
Mogul Brand Cottonseed Feed,  
Sunset Brand Cottonseed Feed.
- Sehlitz Brewing Co., Joseph, Milwaukee, Wis.  
Sehlitz Purity Dried Grains.
- Selmidt & Walker Co., The, Cincinnati, Ohio.  
Snow King Chop,  
Snow King Germ Food,  
Snow King Hominy Feed.
- Sehneider Brothers Co., Mount Carmel, Pa.  
Golden Brand Chick Feed,  
Golden Brand Hen Feed  
Golden Brand Mash Feed.
- Sehooley & Son, H. N., Luzerne, Pa.  
Hen's Delight Scratches Feed,  
No. 1 Mixed Chop,  
No. 2 Mixed Chop.
- Schultz, Baujan & Co., Beardstown, Ill.  
Sunbeam Bran,  
Sunbeam Middlings,  
Sunbeam Mixed Feed.

Scobie & Parker Co., Pittsburgh, Pa.

Chick Feed,  
Scratch Feed.

Scott County Milling Co., The, Sikeston, Mo.

Mill Run Bran,  
Wheat Bran,  
Wheat middlings,  
White Corn Bran.

Scott Logan Milling Co., Sheldon, Iowa.

Bran,  
Middlings,  
Red Dog Flour,  
Shorts.

Servus Milling Co., Mankato, Minn.

Servus Bran,  
Servus Flour Middlings,  
Servus Red Dog Flour,  
Servus Standard Middlings.

Shane Brothers & Wilsou Co., Philadelphia, Pa.

Barley Feed,  
Barley Feed and White Corn Feed Mixed,  
Clover Leaf Wheat Bran,  
Egyptian Mixed Feed-Coarse,  
Egyptian Mixed Feed-Fine,  
Egyptian Stock Feed,

Matchless Wheat Bran,

Matchless Wheat Flour Middlings,  
Matchless Wheat Standard Middlings,  
Red Dog,  
Snowball Wheat Flour Middlings with Ground Screenings not exceeding  
Mill Run,  
Wheat Standard Middlings with Ground Screenings not exceeding Mill Run.

Sheffield-King Milling Co., Minneapolis, Minn.

Criterion Barley Feed,  
Fairybow Middlings and Pulverized Wheat Screenings,  
Fancy Brodflake Bran with Ground Screenings,  
Fancy Low Grade Flour,  
Gold Mine Feed.  
King's Corn Feed Meal,  
Whitehope Middlings and Pulverized Wheat Screenings.

Shellabarger Mill & Elevator Co., Salina, Kans.

Wheat Bran and Screenings,  
Wheat Brown Shorts and Screenings,  
Wheat Mixed Feed and Screenings.

Shelly, H. S., Allentown, Pa.

Mixed Feed,  
Wheat Bran and Middlings.

Shepard, Clark & Co., Cleveland, Ohio.

Cleveland Brand Cottonseed Feed.

Sherwin-Williams Co., Cleveland, Ohio.

S. W. C. Linseed Meal.

Shingleur, F. A., Jackson, Miss.

Shingstock Cottonseed Feed,  
Shingstock Prime Cottonseed Meal.

Shredded Wheat Co., The, Niagara Falls, N. Y.

Shredded Wheat Waste.

Shute & Co., E. L., Philadelphia, Pa.

Crown Horse Feed,  
Malasco Sweet Feed,  
None Better Horse Feed  
Pippin Horse Feed,  
Shute's Special Horse Feed.

Siegel, George L., Erie, Pa.

Government Mash,  
Mixed Feed for Poultry.

- Simison, D. D., Volant, Pa.  
Mixed Chop.
- Simpson & Co., The W. A., Baltimore, Md.  
Champion Brand Chick Feed,  
Champion Brand Chick Starter,  
Champion Brand Scratch Feed.
- Sleepy Eye Mills, The, Sleepy Eye, Minn.  
Flour Middlings and Screenings,  
Wheat Bran and Screenings.
- Small Co., The P. A. & S., York, Pa.  
Pearlieross Chick Feed with Grit,  
Pearlieross Scratch Feed, no Grit.
- Smith Brothers, Bradford, Pa.  
Egg Mash.
- Smith, Parry & Co., Milwaukee, Wis.  
Vitex Dairy Feed.
- Smith & Waldo, Wysox, Pa.  
S. & W. Laying Mash.
- Snavely & Sons, J. C., Landisville, Pa.  
Snavely's Poultry Mash.
- Snyder, Estate of George S., Hatfield, Pa.  
Snyder's Chick Feed,  
Snyder's Scratch Feed.
- Soper Co., J. E., Boston, Mass.  
Blue Ribbon Hominy Chop,  
Pioneer Cottonseed Meal.
- Southern Cotton Oil Co., Montgomery, Ala.  
Boveta Brand Cottonseed Hull & Meal Mixture,  
Piedmont Brand Cottonseed Hull & Meal Mixture,  
SCO Co. 7 per cent. Cottonseed Feed,  
SCO Co. 7½ per cent. Cottonseed Meal.
- Southwestern Milling Co., The Kansas City, Mo.  
Aristos Mixed Feed and Wheat Scourings,  
Merit Pure Mixed Feed,  
Optima Pure Soft Wheat Bran,  
Optima Pure Soft Wheat Mixed Feed.  
Red Turkey Pure Wheat Bran,  
Red Turkey Gray Shorts and Wheat Scourings,  
Red Turkey Wheat Brown Shorts and Wheat Scourings,  
Red Turkey Pure Wheat Fancy White Middlings,  
S. W. Mixed Feed and Wheat Scourings.
- Spanogle-Yeager Milling Co., Lewistown, Pa.  
Cottonseed Feed,  
Larro Dairy Feed.
- Sparks Milling Co., Alton, Ill.  
Fancy Gray Middlings,  
Try-Me Bran,  
Try-Me Mixed Feed.
- Sparks Milling Co., Terre Haute, Ind.  
Wabash Mixed Feed.
- Spratt Patent Ltd., Newark, N. J.  
Spratt's Bantam Food No. 4,  
Spratt's Calf Meal,  
Spratt's Chiegrain,  
Spratt's Chick Meal No. 5,  
Spratt's Chick Meal No. 12,  
Spratt's Crissel,  
Spratt's Developing Food,  
Spratt's Egg Mash Food,  
Spratt's Ground Meat Scrap,  
Spratt's Growin' Mash Food,  
Spratt's Pheasant Food No. 3,  
Spratt's Pheasant Meal No. 5,  
Spratt's Pheasant Meal No. 12,

Spratt's Pigeon Food No. 4,  
 Spratt's Pigeon Food No. 5,  
 Spratt's Poultry Food No. 3,  
 Spratt's Scratch Food,  
 Spratt's Turkey Food No. 3,  
 Spratt's Turkey Meal No. 5,  
 Spratt's Utility Mash Food,  
 Spratt's Wild Duck Meal.

Spruce Creek Milling Co., The, Spruce Creek, Pa.  
 Corn & Oats Chon  
 Mixed Feed,  
 Paragon Poultry Mash or Egg Food.  
 Paragon Scratch Feed.

Stafford Flour Mills Co., The, Stafford, Kans.  
 Standard Wheat Shorts,  
 Wheat Bran & Screenings,  
 Wheat Mixed Feed & Screenings.

Stahlnecker, John T., Williamsport, Pa.  
 Pure Grain Chop.

Staley Manufacturing Co., A. E., Decatur, Ill.  
 Staley's Corn Gluten Feed.

Standard-Tilton Milling Co., St. Louis, Mo.  
 Wheat Bran with Screenings not exceeding Mill Run,  
 Wheat Middlings with Screenings not exceeding Mill Run.

Standard Cereal Co., The, Chillicothe, Ohio.  
 Logan Hominy Feed,  
 Standeo Feed Meal,  
 Standeo Hominy Feed,  
 Standeo Middlings,  
 Standeo Mixed Feed,  
 Standeo Wheat Bran.

Stanley Co., John T., New York, N. Y.  
 Stanley's High Protein Meat Scraps.

Star & Crescent Milling Co., Chicago, Ill.  
 Barley Feed,  
 Crescent Bran with Ground Screenings not exceeding Mill Run,  
 Crescent Middlings,  
 Rye Feed,  
 Star Bran with Ground Screenings not exceeding Mill Run,  
 Star Middlings with Ground Screenings not exceeding Mill Run,  
 Star Red Dog Flour.

Stauffer, F. Z., York, Pa.  
 Scratch Grains.

Stauffer, H. M., Leola, Pa.  
 Chick Feed,  
 Dry Mash,  
 Scratch Feed,  
 Special Chick Feed.

Stagmaier Brewing Co., Wilkes-Barre, Pa.  
 Dried Brewers' Grains.

Stellman, W. H., Baltimore, Md.  
 Ador Brewers' Dried Grains,  
 Ador Distillers' Dried Grains,  
 Crown Distillers' Dried Malt Grains,  
 Crown Distillers' Dried Grains,  
 Distillers' Dried Corn Grains,  
 F. B. Brewers' Dried Grains,  
 Milk Brand Brewers' Dried Grains.

Stern & Sons, Inc., Bernhard, Milwaukee, Wis.  
 Atlas Wheat Bran with Ground Screenings not exceeding Mill Run,  
 Atlas Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,  
 Standard Wheat Middlings with Ground Screenings not exceeding Mill Run,  
 Stern's Rye Middlings with Ground Screenings not exceeding Mill Run.

Stewart, Jesse C., Pittsburgh, Pa.

Esco Standard Wheat Middlings with Ground Screenings not exceeding Mill Run,  
Shadyside Wheat Bran with Ground Screenings not exceeding Mill Run.

St. Mary Mill Co., St. Mary, Mo.

Wheat Bran,  
Wheat Shorts.

Stock & Sons, F. W., Hillsdale, Mich.

Barley Feed,  
Bran,  
Middlings,  
Monarch Mixed Feed,  
Wheat Bran with Mill Run Screenings.

Stokes Milling Co., Watertown, S. D.

Wheat Bran with Ground Screenings not exceeding Mill Run,  
Country Wheat Middlings with Ground Screenings not Exceeding Mill Run.

Stott Flour Mills, Inc., David, Detroit, Mich.

Climax Middlings,  
Pennant Middlings with Ground Screenings not exceeding Mill Run,  
Spring Wheat Bran and Wheat Screenings.

Suffern-Hunt Mills, Decatur, Ill.

Aeme Hominy Feed.

Sugarine Co., The, Peoria, Ill.

Ideal Horse Feed,  
Ideal Horse Feed with Alfalfa,  
Ideal Sugared Feed,  
Suco Alfalfa Molasses Feed,  
Suco Corn Germ Meal,  
Suco Dairy Feed,  
Suco Fat Maker,  
Suco Horse Feed,  
Suco Old Process Linseed Meal and Old Process Screenings Oil Feed,  
Suco Stock Feed,  
Sugarine Calf Meal,  
Sugarine Chick Feed,  
Sugarine Chick Feed with 5 per cent. Grit,  
Sugarine Dairy Feed,  
Sugarine Hog Meal,  
Sugarine Horse and Mule Feed,  
Sugarine Horse Feed with Alfalfa  
Sugarine Pigeon Feed,  
Sugarine Poultry Mash,  
Sugarine Scratch Feed,  
Sugarine Scratch Feed with 5 per cent. Grit,  
Universal Scratch Feed,  
Universal Scratch Feed with 5 per cent. Grit.

Sutherland Flour Mills Co., Cairo, Ill.

Corn Bran,  
Daisy Dairy Feed,  
Harvester Molasses Feed,  
Premium XXXX Feed,  
Prize Poultry Feed,  
Velvet Molasses Feed,  
Wheat Shorts.

Sutton & Greenawalt, West Newton, Pa.

Sutton & Greenawalt No. 1 C Chop,  
Sutton & Greenawalt No. 2 C Chop,  
Sutton & Greenawalt Corn and Oats Chop.

Swift & Company, Chicago, Ill.

Swift's Blood Meal,  
Swift's Digester Tankage,  
Swift's Eureka Meat Scraps,  
Swift's Laymore Meat Scraps,  
Swift's Meat Scraps,  
Swift's Meat Meal,  
Swift's Poultry Bone,  
Swift's Soluble Blood Flour.

Swope Brothers, Johnstown, Pa.

Banner Chick Feed,

Corn and Oats Chop,

Corn, Oats and Barley Chop,

Egg Maker Dry Mash,

Excelsior Chicken Feed.

Syracuse Rendering Co., Syracuse, N. Y.

Syracuse Bone Meal,

Syracuse Bone and Meat Meal,

Syracuse Cracked Bone,

Syracuse Poultry Food.

Taylor Commission Co., Atlanta, Ga.

Taylor Brand Cottonseed Feed.

Tennessee Fibre Co., Memphis, Tenn.

Creamo Brand Cottonseed Feed.

Thompson & Co., Pittsburgh, Pa.

Oil Meal.

Thompson & Glenn, Butler, Pa.

Perfection Dairy Feed.

Thornton & Chester Milling Co., Buffalo, N. Y.

T. & C. Wheat Bran with Ground Screenings not exceeding Mill Run,

T. & C. Wheat Coarse Middlings with Ground Screenings not exceeding Mill

Run,

T. & C. Wheat Middlings with Ground Screenings not exceeding Mill Run,

T. & C. Wheat Mixed Feed with Ground Sereenings not exceeding Mill Run.

Tioga Mill & Elevator Co., Waverly, N. Y.

Alfalfa Meal,

Blue Brand Tioga Dairy Feed,

Colonel's Ration,

Corn Feed Meal,

Derby Chick Feed,

Derby Horse Feed.

Derby Scratch Feed,

H. W. S. Stock Feed,

Liberty Standard Chiek Feed,

Liberty Standard Growing Mash,

Liberty Standard Laying Mash,

Liberty Medium Cracked Grain,

Liberty Standard Mixed Grains,

Omar Mixed Feed,

Primary Chick Feed,

Red Brand Tioga Dairy Feed,

Tioga Brood Sow Feed,

Tioga Chick Feed,

Tioga Dairy Feed, Blue Brand,

Tioga Dairy Feed, Red Brand,

Tioga Dairy Feed, White Brand,

Tioga Dry Mash,

Tioga Fattening Hog Feed,

Tioga Growing Grains,

Tioga Growing Mash,

Tioga Growing Pig Feed,

Tioga Horse Feed,

Tioga Poultry Grains,

Tioga Laying Food,

Tioga Wheat Middlings,

Waverly Flour Wheat Middlings,

White Brand Tioga Dairy Feed.

Toledo Grain & Milling Co., The, Toledo, Ohio.

Camp's "A" Yellow Chop Feed,

Camp's Clover Leaf Serateh Feed, no Grit,

Camp's Clover Leaf Serateh Feed with Grit,

Camp's C. O. & B. Chop Feed,

Camp's C. O. B. K. Chop Feed,

Camp's Corn Meal Stone Ground,

Camp's Invineible Alfalfa Feed,

Camp's Keystone Chop Feed,

Camp's Little Wonder Chop Feed,

Camp's Maumee Stoek Feed,

Camp's M. D. Chop Feed,  
 Camp's No. 1 Yellow Chop Feed,  
 Camp's Red Ball Egg Mash,  
 Camp's Red Ball Scratch Feed with Grit,  
 Camp's Red Ball Scratch Feed without Grit,  
 Camp's Stock Feed,  
 Camp's Surprise Chop Feed,  
 Camp's Wamba Chop Feed.

Toledo Seed & Oil Co., The, Toledo, Ohio.  
 Major Brand Old Process Oil Meal.

Trow Company, W., Madison, Ind.  
 Trow's Wheat Bran with Ground Screenings not exceeding Mill Run,  
 Trow's Wheat middlings with Ground Screenings not exceeding Mill Run,  
 Trow's Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.

Ubiko Milling Co., The, Cincinnati, Ohio.  
 Ubiko Horse and Stock Feed,  
 Union Grains, Ubiko, Biles Ready Dairy Ration.

Union Elevator Co., The, Cleveland, Ohio.  
 Euclid Dairy Feed,  
 Euclid Hen Food,  
 Euclid Shot Force.

Union Grain & Feed Co., The, Anderson, Ind.  
 Colonial Horse Feed,  
 Diamond Scratch Feed with Grit,  
 Diamond Scratch Feed without Grit,  
 Union Dairy Feed,  
 Union Horse Feed.

Union Seed & Fertilizer Co., New York, N. Y.  
 Columbia Cottonseed Feed,  
 Surety Brand Cottonseed Feed.

Union Starch & Refining Co., Edinburg, Ind.  
 Union Corn Gluten Feed.

United Home Dressed Meat Co., Altoona, Pa.  
 Digester Tankage,  
 Meat and Bone Tankage.

United States Frumentum Co., Detroit, Mich.  
 Frumentum Hominy Feed.

Urban Milling Co., George, Buffalo, N. Y.  
 Wheat Bran with Ground Screenings not exceeding Mill Run,  
 Wheat middlings with Ground Screenings not exceeding Mill Run,  
 Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.

Valier & Spies Milling Co., Marine, Ill.  
 Valier's Wheat Bran with Ground Wheat Screenings,  
 Valier's Wheat middlings with Ground Wheat Screenings,  
 Valier's Wheat Mixed Feed with Ground Wheat Screenings.

Valley City Milling Co., Grand Rapids, Mich.  
 Rowena Wheat Bran with Ground Screenings not exceeding Mill Run,  
 Rowena Wheat Cowfeed with Ground Screenings not exceeding Mill Run,  
 Rowena Wheat middlings with Ground Screenings not exceeding Mill Run.

Valley Manufacturing Co., Vicksburg, Miss.  
 Star Brand Cottonseed Feed,  
 Valley Brand Cottonseed Feed.

Van Iderstine Co., The, Long Island City, N. Y.  
 Darling's Blood Meal,  
 Darling's Granulated Bone,  
 Darling's High Protein Meat Scraps,  
 Darling's Pure Ground Meat Scraps,  
 Darling's Raw Bone Meal,  
 Darling's 40 per cent. Protein Digester Tankage,  
 Darling's 60 per cent. Protein Digester Tankage.

Victor Brewing Co., Jeannette, Pa.  
 Brewers' Dried Grains.

Virginia Feed & Milling Corporation, Alexandria, Va.

Arlington Hog Meal,  
 Arlington Horse and Mule Feed,  
 Blue Bell Dairy Feed,  
 Crown Chick Feed,  
 Crown Mash Feed,  
 Crown Poultry Feed, no Grit,  
 Crown Poultry Feed with Grit,  
 Fairfax Horse and Mule Feed,  
 Old Dominion Horse and Mule Feed,  
 Supreme Dairy Feed,  
 Supreme Horse and Mule Feed,  
 Tivoli Brand Alfalfa Meal,  
 Tivoli Brand Malt Sprouts,  
 Tivoli Brand Sweet Feed,  
 V. C. Home Mixture H. & M. Feed.

Voigt Milling Co., Grand Rapids, Mich.

Voigt's Cow Feed containing Mill Run Screenings,  
 Voigt's Crescent Bran containing Mill Run Screenings,  
 Voigt's Crescent middlings containing Mill Run Screenings.

Wade & Sons, John, Memphis, Tenn.

Alfo Horse and Mule Feed,  
 Big Value Hen Feed,  
 Dandy Hen Feed,  
 Dandy Horse and Mule Feed,  
 Famous Horse and Mule Feed,  
 Oateo Horse and Mule Feed,  
 Old Jack Horse and Mule Feed,  
 Old Reliable Hen Feed,  
 Old Reliable Horse and Mule Feed,  
 Reno Horse and Mule Feed,  
 Royal Hen Feed,  
 Sunny South Hen Feed,  
 Syration Horse and Mule Feed,  
 Wade's Best Hen Feed,  
 Wade's Best Horse and Mule Feed.

Wagar & Co., C. W., Philadelphia, Pa.

Corn Bran,  
 Hominy Feed,  
 Middlesex Corn Bran,  
 Northern Illinois Reground Oat Feed,  
 Oseeola Corn and Barley Feed,  
 Union Corn Gluten Feed.

Waggoner-Gates Milling Co., Independence, Mo.

Mixed Feed.

Walters Milling Co., Philadelphia, Pa.

Brewers' Grains,  
 White Corn Bran,  
 White Hominy Feed.

Walter & Sons, George, Butler, Pa.

Byrite Chop,  
 Byrite Serateh Feed.

Walton Brothers, Philadelphia, Pa.

Walton Special.

Washburn-Crosby Co., Minneapolis, Minn.

Adrian Red Dog Flour,  
 Barley middlings,  
 Corn Feed Meal,  
 Ground Barley Screenings,  
 Rye middlings,  
 Vulcan Rye Feed,  
 Wheat Bran with Ground Screenings not exceeding Mill Run,  
 Wheat Flour middlings with Ground Screenings not exceeding Mill Run,  
 Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.

Wash-Co Alfalfa Milling Co., Fort Calhoun, Neb.

- Alfalcream,
- Alfalgreen,
- Famous Horse Feed,
- Howard's Special,
- Practical,
- Special Horse Feed,
- Strong Horse Feed,
- Wash-Co Horse Feed.

Watkins Med. Co., The, J. R., Winona, Minn.

- Watkins' Poultry Tonic,
- Watkins Stock Tonic.

Weinmann Milling Co., J. F., Philadelphia, Pa.

- Diamond "S" Hominy Feed.

Weiss Alfalfa Stock Food Co., The Otto, Wichita, Kans.

- Otto Weiss Alfalfa Meal,
- Otto Weiss Stock Feed,
- Otto Weiss Sweet Feed No. 1,
- Otto Weiss Sweet Feed No. 4.

Wells Flour Milling Co., Wells, Minn.

- Feedwell Bran with Ground Screenings not exceeding Mill Run,
- Feedwell Flour Middlings,
- Feedwell Low Grade Flour,
- Feedwell Standard Middlings,
- Germ Middlings,
- Special Middlings.

Wells-Abbott-Nieman Co., Schuyler, Neb.

- Pure Rye Middlings,
- Wheat Bran,
- Wheat Middlings,
- Wheat Shorts,
- White Hominy Feed,
- Yellow Hominy Feed.

Weltin, M., Quincy, Ill.

- M. Weltin's Choice Middlings,
- M. Weltin's Winter Bran.

Wentz, A. F., Jersey Shore, Pa.

- Buckwheat Middlings,
- Little Chick Food,
- Mixed Chop,
- Pure Corn Chop,
- Pure Wheat Bran,
- Pure Wheat Middlings,
- Scratch Grains.

Wertz & Son, F. S., Reading, Pa.

- Faramel Dairy Feed,
- Faramel Horse Feed,
- Our Own Alfalfa Horse Feed.

Western Flour Mills Co Davenport, Iowa.

- Black Hawk Bran with Ground Screenings not to exceed Mill Run,
- Black Hawk Standard Middlings.

Western Grain Products Co., Hammond, Ind.

- Alfalfa Meal,
- Calumet Alfalfa Horse Feed,
- Calumet Dairy Feed,
- Calumet Scratch Feed, no Grit,
- Calumet Scratch Feed with Grit,
- Calumet Stock Feed,
- Hammond Dairy Feed,
- Hammond Scratch Feed, no Grit,
- Hammond Scratch Feed with Grit,
- Liberty Standard Mixed Grains.

Western Grains & Feed Co., Chicago, Ill.

- Brewers' Dried Grains,
- Malt Sprouts.

- Western Star Mill Co., Salina, Kans.  
 Star Winter Wheat Bran and Screenings not to exceed 8 per cent. Screenings,  
 Star Winter Wheat Middlings.
- Wichita Flour Mills Co., Wichita, Kans.  
 Standard Wheat Shorts,  
 Wheat Bran and Screenings,  
 Wheat Mix Feed and Screenings.
- Wilbur Stock Food Co., Milwaukee, Wis.  
 Wilbur's Hog Tonic,  
 Wilbur's Stock Tonic.
- Williams Brothers Co., The, Kent, Ohio.  
 Kent Mixed Feed,  
 Pure Ohio Wheat Bran,  
 Pure Winter Wheat Middlings.
- Williams, Frank, Easton, Pa.  
 Dandy Horse Feed,  
 Diamond Scratch Feed,  
 Special Horse Feed,  
 Star Scratch Feed,  
 Tip Top Horse Feed.
- Wilson, John C., Philadelphia, Pa.  
 Wilson's Alfalfa Molasses Horse Feed.
- Woodworth & Co., E. S., Minneapolis, Minn.  
 Flour Middlings.  
 Snow's Cream Flour Middlings.
- Woolworth, E. J., Gibbon, Neb.  
 Pure Alfalfa Meal.
- Wyckoff, J. M., East Stroudsburg, Pa.  
 Beet Pulp Dairy Feed,  
 Dairy Feed,  
 Mixed Feed,  
 Poultry Mash,  
 Seratch Grain.
- Yates & Donelson Co., Memphis, Tenn.  
 Corn Bran,  
 Hominy Feed.
- Yerxa, Andrews & Thurston, Inc., Minneapolis, Minn.  
 Golden Durum Wheat Flour Middlings,  
 Nokomos Durum Wheat Bran,  
 Nokomos Durum Wheat Middlings.
- Young's Stock Food Co., Dr. T. D., Roaring Springs, Pa.  
 Dr. Young's Animal Regulator,  
 Dr. Young's Anti-Abortion Food,  
 Dr. Young's Hog Food,  
 Dr. Young's Horse Regulator,  
 Dr. Young's Poultry Food.
- Zenith Milling Co., Kansas City, Mo.  
 Wheat Bran and Screenings not exceeding Mill Run.

## ANALYSES OF SPECIAL SAMPLES OF FEEDING STUFFS RECEIVED FROM MANUFACTURERS AND PUR- CHASERS LOCATED IN PENNSYLVANIA.

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The feeding stuffs law provides for the analysis of samples for residents of the State for the fee of one dollar (\$1.00). During the year 221 special samples were received and analyzed in accordance with this proviso. They consisted largely of feeds suspected of not meeting the claimed guarantees, especially cotton seed meals and brands which were analyzed for the purpose of fixing guarantees for registration and sale. At the time of submitting reports of the results obtained, inquiries regarding the requirements of the law were also furnished. The detailed analyses of these special samples are not included in this report because the information was considered as being of personal interest and value to the parties for whom the analyses were made.

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### DIRECTIONS FOR ANALYSIS OF SPECIAL SAMPLES.

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Any one resident in Pennsylvania manufacturing, purchasing or making use of feeding stuffs may for a fee of one dollar (\$1.00) submit samples for analysis. Those who desire to have this work done should proceed as follows:

*Amount of Sample:* A sample containing about one-half pound of feed should be submitted for analysis. It should be carefully secured from several sacks, or if in bulk from several different places in the bin, placed on a clean oil-cloth or paper thoroughly mixed and sub-divided by halving and quartering until the desired amount is obtained. The sample should then be placed in a bottle, carton or large mailing envelope usually used for such purposes and plainly marked for transportation showing the name of sender and name or number of the feed. When two or more samples are submitted, especially if they are similar in composition and appearance, they should be marked so that they can be properly listed and identified and in such a manner as to avoid any chance of error.

*Charge for Analysis:* A fee of one dollar (\$1.00) is charged for each sample analyzed, determinations being made for protein, fat and fiber, and should be sent, with a letter requesting the analysis to be made, in the form of check, money order or cash.

*Address:* Both samples and letters enclosing fees should be addressed and forwarded to the Bureau of Chemistry, Pennsylvania Department of Agriculture, Box 108, Harrisburg, Pa.

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#### OFFICIAL SAMPLES OF FEEDING STUFFS OBTAINED BY SPECIAL AGENTS.

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There were 1,091 official samples of feeding stuffs received during 1918 from the special agents and each was analyzed for moisture, protein, fat and fiber and examined microscopically for ingredients and quality. In addition to securing samples, the special agents inspected the method of labeling and guaranteeing of the various brands and grades of feeds and submitted reports covering this work and for each sample selected. The results obtained have been classified and tabulated in order to show the number of deficiencies, average analyses and retail prices, and the detailed analyses of each sample. The following table (No. I) shows the number of counties visited and the number of samples secured in each.

TABLE I.—COUNTIES VISITED AND NUMBER OF SAMPLES SECURED IN EACH.

Name of County.	Number of Samples.
Adams,	8
Allegheny,	38
Armstrong,	5
Beaver,	23
Bedford,	5
Berks,	6
Blair,	27
Bradford,	48
Bucks,	33
Butler,	24
Cambria,	32
Cameron,	5
Centre,	21
Chester,	33
Clarion,	6
Clearfield,	19
Clinton,	18
Columbia,	5
Crawford,	13
Cumberland,	17
Dauphin,	36
Delaware,	7
Elk,	13
Erie,	30
Fayette,	24
Forest,	4
Franklin,	17
Greene,	6
Huntingdon,	17
Indiana,	18
Jefferson,	19
Juniata,	2
Lancaster,	22
Lawrence,	16
Lebanon,	19
Lehigh,	12
Luzerne,	19
McKean,	11
Mercer,	23
Mifflin,	5
Monroe,	24
Montgomery,	47
Northampton,	30
Northumberland,	16
Perry,	5
Philadelphia,	14
Potter,	4
Snyder,	2
Somerset,	14
Susquehanna,	9
Tioga,	54
Union,	6
Venango,	18
Warren,	5
Washington,	37
Wayne,	8
Westmoreland,	52
Wyoming,	26
York,	20
Total,	1,091

## GUARANTEES AND DEFICIENCIES.

Of the 1,091 samples received during the year, all but 57 or 1,031 were guaranteed as required for protein, fat and fiber. Of this number 16 or 1.47 per cent. were found, upon analysis, to be deficient in both protein and fat, 32 or 2.93 per cent. were deficient in protein alone and 85 or 7.79 per cent. were deficient in fat alone.

The total number deficient in protein was 48 or 4.40 per cent. and in fat 101 or 9.26 per cent. Those samples for which no guarantees were given represented shipments of wheat middlings and whole grain chop and poultry foods which are not required to be guaranteed. Comparing these figures with those of 1917, the number of samples which were deficient in both protein and fat was doubled while those deficient in protein alone was about half as numerous and in fat alone nearly twice as numerous as the corresponding deficiencies noted in the samples analyzed during the previous year. The "overages" or the samples which, upon analysis, were higher than the guarantees greatly exceeded those found deficient as will be noted by referring to the large table (No. IV) showing detailed results.

Owing to the restrictions in manufacturing and shipping incident to the war, and the difficulty in obtaining the necessary products entering into mixed feeds, the deficiencies may fairly be stated as remaining normal and not as numerous as might reasonably have been anticipated. There was a noticeable improvement in the decreased use of both minimum and maximum guarantees. Of the total number of shipments sampled, 88 or approximately 8 per cent. were guaranteed with both minimum and maximum guarantees and the results of analysis showed that 46 or about one-half of the number guaranteed in this manner failed to meet the higher figures. This fact was most noticeable in the cottonseed meals and feeds, dairy feeds and poultry foods in which classes of feeds the deficiencies noted more frequently occurred. The samples received and examined representing the various brands and kinds of feeds have been classified and grouped together for comparison in 40 classes in the following table (No. II) which shows the number of samples in each class, the number guaranteed and the number of deficiencies in both protein and fat, protein alone and fat alone. These deficiencies, as listed, are only those where the protein was 1 per cent. or more and the fat .5 per cent. or more below their respective guarantees. There were many samples, where deficiencies occurred which were less than these tolerances, as will be observed by a study of the results in the large table.

TABLE II.—CLASSIFICATION OF SAMPLES ANALYZED AND SUMMARY OF DEFICIENCIES.

Name of Feeding Stuffs.	Number of samples analyzed.	Number of samples guaranteed.	Deficient in protein and fat.	Deficient in protein alone.	Deficient in fat alone.
Cottonseed meal, -----	22	22	1	1	-----
Cottonseed feeds, -----	74	74	1	5	-----
Linseed oil meal, O. P., -----	38	36	-----	-----	-----
Cocoanut oil meal, -----	5	5	-----	-----	-----
Distillers' dried grains (largely from corn), -----	8	5	-----	-----	3
Distillers' yeast and vinegar dried grains, -----	16	16	-----	1	1
Brewers' dried grains, -----	26	25	-----	3	-----
Corn gluten feed, -----	18	17	-----	-----	3
Hominy feed, -----	8	6	-----	-----	-----
Corn bran, -----	3	3	-----	-----	1
Corn feed meal, -----	16	12	-----	-----	1
Wheat middlings, -----	22	22	-----	-----	1
Wheat middlings with admixtures, -----	5	4	-----	-----	-----
Mixed feed; wheat by-products, -----	8	5	-----	-----	-----
Wheat bran, -----	15	15	-----	-----	1
Wheat bran with admixtures, -----	5	4	-----	-----	-----
Rye middlings, -----	5	5	-----	-----	-----
Rye middlings with admixtures, -----	1	-----	-----	-----	-----
Mixed feed; rye-by-products, -----	1	-----	-----	-----	-----
Wheat and rye middlings, -----	11	9	2	-----	1
Oat feed, -----	2	2	-----	-----	1
Barley middlings, -----	14	14	-----	-----	-----
Barley mixed feed, -----	3	-----	-----	-----	1
Buckwheat middlings, -----	1	1	-----	-----	-----
Buckwheat feed, -----	5	5	1	-----	-----
Alfalfa meal, -----	6	6	-----	-----	-----
Dried beet pulp, -----	99	98	1	2	17
Proprietary dairy feeds, -----	126	124	6	5	20
Proprietary dairy feeds with molasses, -----	96	93	-----	-----	11
Proprietary stock, horse and mule feeds, -----	93	93	-----	1	1
Proprietary stock, horse and mule feeds with molasses, -----	22	21	1	-----	3
Proprietary calf meals, -----	34	34	1	2	2
Proprietary swine feeds, -----	25	25	-----	-----	-----
Proprietary chop feeds, -----	22	9	-----	-----	3
Miscellaneous chop feeds, -----	6	1	-----	-----	-----
Miscellaneous feeds, -----	-----	-----	-----	-----	-----
Proprietary poultry foods:					
Whole grain scratch feeds, -----	115	107	-----	-----	7
Mash feeds, -----	65	63	1	3	-----
Animals by-products, -----	44	43	1	8	2
Continental stock and poultry foods, -----	1	1	-----	-----	-----
Total, -----	1,091	1,034	16	32	85

## AVERAGE ANALYSES AND RETAIL PRICES.

The average results of analyses and retail selling prices of the feeds selected during the year cannot be claimed to fairly represent all of the various grades of these products which were consumed in the State as the samples included in this report were obtained from but a small proportion of the tonnage sold. The results will, however, indicate as nearly as can be ascertained, the average composition and

retail selling prices of the several classes and kinds of feeding stuffs found on the markets during 1918. The composition of these classes was found to be normal, the average protein content of the proprietary dairy feeds and dairy feeds with molasses being somewhat higher and the fiber content somewhat lower than in these classes analyzed last year. The average prices show a marked increase in each case with the exception of wheat mixed feed over the average prices prevailing in 1917. The values obtaining for last year's feeds increased over those for 1916 from 10 to 100 per cent. while the values for the 1918 feeds averaged still higher and increased in about the same proportion over those of the previous year. The average increase in values for the year for the principle classes of feeds ranged from 4 to 41 per cent. and were as follows: Cottonseed meal 25 per cent., cottonseed feed 26 per cent., linseed oil meal 10 per cent., distillers' dried grains from corn 42 per cent., brewers' dried grains 29 per cent., corn gluten feed 21 per cent., hominy feed 24 per cent., wheat middlings 15 per cent., wheat middlings with admixtures 18 per cent., wheat bran 6 per cent., wheat bran with admixtures 4 per cent., oat feed 22 per cent., alfalfa meal 24 per cent., dried beet pulp 35 per cent., proprietary dairy feeds 20 per cent., proprietary dairy feeds with molasses 26 per cent., proprietary stock horse and mule feeds 15 per cent., proprietary stock, horse and mule feeds with molasses 21 per cent., calf meals 21 per cent., swine feeds 30 per cent., chop feeds 23 per cent., poultry scratch foods 16 per cent., poultry mash foods 14 per cent. and animal by-products 39 per cent.

The average analyses and retail prices for the several classes of feeds represented by the samples received are shown in table III which follows:

TABLE III.—AVERAGE ANALYSIS AND RETAIL PRICES.

Name of Feeding Stuffs.	Number of samples analyzed	Protein.	Fat.	Fiber.	Price per ton.
Cotton meal, -----	22	40.31	7.12	9.52	\$64.84
Cottonseed feeds, -----	74	34.72	6.24	13.01	60.34
Linseed oil meal, O. P., -----	38	37.17	6.77	6.94	63.05
Cocoanut oil meal, -----	5	22.66	7.74	7.01	55.40
Distillers' dried grains (largely from corn), -----	5	32.64	10.21	10.27	69.89
Distillers' yeast and vinegar dried grains, -----	8	19.78	7.03	17.25	57.33
Brewers' dried grains, -----	16	27.74	6.84	13.79	59.38
Corn gluten feed, -----	26	24.91	3.22	7.03	58.39
Hominy feed, -----	18	11.48	6.92	4.38	68.44
Corn bran, -----	8	11.24	8.12	7.72	58.09
Corn feed meal, -----	3	12.92	9.25	5.03	68.06
Wheat middlings, -----	16	17.56	5.09	5.16	57.94
Wheat middlings with admixtures, -----	22	17.25	5.65	6.88	56.00
Mixed feed; wheat by-products, -----	5	18.26	4.87	7.61	44.20
Wheat bran, -----	8	16.56	4.52	8.54	45.50
Wheat bran with admixtures, -----	15	16.39	4.91	9.62	45.29
Rye middlings, -----	5	17.39	3.97	4.83	54.63
Rye middlings with admixtures, -----	5	17.63	3.92	5.96	59.20
Mixed feed; rye by-products, -----	1	17.88	3.38	4.57	62.06
Wheat and rye middlings, -----	1	15.06	3.69	5.52	65.00
Oat feed, -----	11	6.69	1.90	25.23	34.81
Barley middlings, -----	2	16.50	3.44	3.49	63.60
Barley mixed feed, -----	14	12.55	3.05	13.32	47.54
Buckwheat middlings, -----	3	27.50	6.39	7.41	64.10
Buckwheat feed, -----	1	14.88	2.58	17.40	44.00
Alfalfa meal, -----	5	15.71	1.86	26.39	52.60
Dried beet pulp, -----	6	10.23	0.86	17.68	54.83
Proprietary dairy feeds, -----	99	23.91	5.45	10.43	62.91
Proprietary dairy feed with molasses, -----	126	19.26	4.46	12.63	54.74
Proprietary stock, horse and mule feeds, -----	96	11.83	4.49	9.86	60.79
Proprietary stock, horse and mule feeds with molasses, -----	93	11.50	2.92	11.34	63.51
Proprietary calf meals, -----	22	25.21	5.59	4.43	96.20
Proprietary swine feeds, -----	34	19.45	5.89	8.18	69.56
Proprietary equine feeds, -----	25	10.93	4.03	8.69	63.68
Proprietary poultry foods:					
Whole grain scratch feeds, -----	115	11.54	3.47	2.82	87.20
Mash feeds, -----	65	19.36	4.83	6.89	75.89
Animal by-products, -----	44	50.90	10.98	1.60	107.20

## DISCUSSION OF THE ANALYTICAL RESULTS

Each of the official samples of feeding stuffs obtained by the special agents were analyzed for the purpose of determining whether the guarantees claimed were correct and were examined microscopically to note the presence of prohibited materials, the correctness of claimed composition and their fitness as foods. In order that the main features of the results obtained in each class of feed as shown in table II may be given more prominence than can be indicated in table IV showing analytical data in detail, a short discussion of the results of analyses of the samples of each class follows:

## OIL CAKE MEALS.

## COTTONSEED MEAL.

Analyses on pages 88 to 91.

The shipments of cottonseed meal in 1918 are represented by 22 samples including 12 brands, all being guaranteed, the output of 11 Companies. Several brands of cottonseed products running low in protein and formerly improperly sold as meals, were found correctly branded as cotton seed feeds and were clasified as such, thus showing a marked improvement in this respect over the condition prevailing last year. There were 7 brands of cottonseed feeds represented by 20 samples received during the year from shipments which were found labeled and sold as cottonseed feeds which in 1917 were being incorrectly branded and sold as meals and accordingly are listed in this report as feeds. This condition in part explains the decreased number of brands classified as cotton seed meals. In a like manner the number of deficiencies found were less in number than those noted during the previous season, there being only one sample deficient in both protein and fat and two in protein alone. There was also an improvement in the method of guaranteeing by eliminating both minimum and maximum guarantees, as only three samples representing two brands were found branded in this manner. In these cases the samples, upon analysis, failed to meet the higher guarantees for protein. The improvement in the method of guaranteeing cotton seed meals and feeds, as shown by the lessened number of cases where "sliding" guarantees were used, has been due to the objection made against the use of this form of labeling by the Department, the position taken by the Feed Control Officials Association for all classes of feeds and especially the rule 15 issued by the United States Food Administration covering cottonseed products whereby both minimum and maximum guarantees were prohibited. The cottonseed meals were guaranteed from 38.62 per cent. to 43.00 per cent. protein. The samples analyzed from 33.50 per cent. in a sample 5 per cent. below the guarantee to 47.06 per cent. averaging 40.31 per cent. in protein, 5.41 per cent. to 8.71 per cent., averaging 7.12 per cent. fat and 6.70 per cent. to 12.59 per cent., averaging 9.52 per cent. fiber. The prices showed the usual fluxations ranging from \$56.50 to \$70.00 and averaged \$64.84 a ton. The shipment selling at the lowest price analyzed 41.63 per cent. protein, 7.89 per cent. fat, while those selling at the highest price of \$70 included four different brands which analyzed in protein and fat 33.50 per cent. and 6.93 per cent., 7.81 and 6.13 per cent., 38.15 and 5.41 per cent. and 43.88 and 8.02 per cent. respectively.

## CONTTONSEED FEEDS.

Analyses on Pages 90 to 97.

There were 74 samples of cottonseed feeds representing 23 brands, the output of 19 companies, received during the year, all of which were labeled, being guaranteed from 20 to 36 per cent. protein. Seven of these brands were being sold in 1917 as cottonseed meals contrary to the requirements, and were so listed in the report for that year, and the fact that during 1918 they were branded as feeds indicates the improvement made in the branding of this class of feeds. There were 7 samples from shipments including 5 brands which showed both minimum and maximum guarantees and 5 of these samples failed to meet the higher figures. One sample was deficient in both protein and fat and five deficient in protein alone. They varied in their composition from 18.50 per cent. to 44.94 per cent. averaging 34.72 per cent. protein, 3.38 per cent. to 10.59 per cent. averaging 6.24 per cent. fat and 8.34 per cent. to 24.04 per cent. averaging 13.01 per cent. fiber. The prices ranged from \$43.00 in a brand analyzing 23.44 per cent. protein and 5.03 per cent. fat to \$85.00 in one containing 34.83 per cent. protein and 5.54 per cent. fat and averaged \$60.34 a ton.

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## LINSEED OIL MEAL.

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Analyses on pages 96 to 101.

The linseed oil meals numbered 38 samples, 13 brands, the product from 12 companies. They were all old process meals and two shipments were found not guaranteed as required. The character of all was good, no deficiencies were detected, and the guarantees which ranged from 30 per cent. to 36 per cent. protein were all exceeded. Three samples were from two brands showing both minimum and maximum guarantees and in these cases the higher claims were maintained. The composition averaged higher than those examined last year. The protein ranged from 32.44 per cent. to 41.75 per cent. averaging 37.17 per cent., the fat from 5.64 per cent. to 8.43 per cent. averaging 6.77 per cent. and the fiber from 5.55 per cent. to 9.30 per cent. averaging 6.94 per cent. The retail selling prices were from \$48 to \$75 and averaged \$63.05 a ton.

## COCOANUT OIL MEAL.

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Analyses on pages 100 and 101.

The product obtained by the extraction of oil from the meats of the cocoanut and sold as cocoanut oil meal is represented by 5 samples which include 2 brands. They were all guaranteed to contain 20 per cent. of protein and upon analysis exceeded this amount. The protein ranged from 21.56 per cent. to 24.63 per cent. averaging 22.66 per cent., the fat from 6.03 per cent. to 9.05 per cent. averaging 7.74 per cent. and the fiber from 6.32 per cent. to 8.35 per cent. averaging 7.01 per cent. The selling prices were from \$51 to \$62 and averaged \$55.40 a ton.

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## DISTILLERY AND BREWERY BY-PRODUCTS.

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### DISTILLERS DRIED GRAINS LARGELY FROM CORN.

Analyses on pages 100 to 103.

This class of feed is represented by 5 samples, each being a different brand. This number is one-fourth of the number of like samples received and analyzed in 1917 and the small number of shipments found offered for sale is due to the curtailment of the distilleries thus removing from the market a valuable by-product. They were all guaranteed, no deficiencies were found and the guarantees were all exceeded. They analyzed from 30.13 per cent. to 35.06 per cent. averaging 32.64 per cent. protein, 9.64 per cent. to 10.70 per cent. averaging 10.21 per cent. fat and 7.63 per cent. to 12.05 per cent. averaging 10.27 per cent. fiber. The prices were from \$60 to \$74 averaging \$69.80 a ton. There were no samples selected of the distillers dried grains from rye.

### DISTILLERS, YEAST AND VINEGAR DRIED GRAINS.

Analyses on pages 102 and 103.

In this class were grouped the 8 samples which are the by-products from the manufacture of yeast and vinegar and are composed of the mash residues of corn, rye, barley malt and malt sprouts. They included 5 brands, the product of 3 firms and all were guaranteed, no deficiencies being noted where the amount of protein was 1 per cent. below the guarantees. They analyzed from 16.44 per cent. to 23.00 per cent. averaging 19.78 per cent. protein, 5.48 per cent. to 8.98 per

cent. averaging 7.03 per cent. fat and 13.97 per cent. to 19.57 per cent. averaging 17.25 per cent. fiber. The selling prices were from \$52 to \$65 averaging \$57.33 a ton.

#### BREWERS DRIED GRAINS.

Analyses on pages 102 to 105.

The shipments of brewers dried grains are represented by 16 samples, the output of 12 different firms, all of which were found to be guaranteed. One sample was found deficient in protein and 1 in fat. Five samples including 3 brands were guaranteed with both minimum and maximum guarantees and 3 of these failed to meet the higher figures. They varied in their composition from 20.38 per cent. to 36.19 per cent. averaging 27.74 per cent. protein, 5.20 per cent. to 8.68 per cent. averaging 6.84 per cent. fat and 9.92 per cent. to 17.22 per cent. averaging 13.79 per cent. fiber. The prices ranged from \$50 to \$66 and averaged \$59.38 a ton.

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#### MAIZE BY-PRODUCTS.

##### CORN GLUTEN FEED.

Analyses on pages 104 to 107.

There were 26 samples of corn gluten feed received during the year, the brands of 6 different firms. One was from a shipment not guaranteed and 4 samples included 2 brands where the "sliding" guarantees were used. In these latter cases 2 of the samples met the higher claims upon analysis. They analyzed from 18.56 per cent. to 27.94 per cent. and averaged 24.91 per cent. protein, 1.13 per cent. to 4.95 per cent. and averaged 3.22 per cent. fat and 5.58 per cent. to 8.36 per cent. and averaged 7.03 per cent. fiber. The selling prices were from \$48 to \$68 and averaged \$58.39 a ton.

##### HOMINY FEED.

Analyses on pages 106 to 109.

Eight brands of hominy feed were found being sold in the State during the year, the product of seven companies and 18 samples were obtained for analysis, 1 of which was found to be not guaranteed. The guarantees for protein were nearly all given as 10 per cent. and were exceeded upon analysis. Three samples were found to be deficient in fat. One sample was in a moldy and damaged condition and unfit for feeding purposes while the remaining samples were found clean in their appearance. They analyzed from 9.63 per cent.

to 13.13 per cent. averaging 11.48 per cent. protein, 4.89 per cent. to 8.75 per cent. averaging 6.92 per cent. fat and 3.32 per cent. to 6.16 per cent. averaging 4.38 per cent. fiber. The prices varied from \$60 to \$85 and averaged \$68.44 a ton.

#### CORN BRAN.

Analyses on pages 108 to 111.

The 7 different brands of this class of feeds from as many manufacturing plants, is represented by 8 samples, 2 of which included shipments not having the guaranteed analysis attached as required. Three of the samples were not as clean as they should have been as small amounts of corn siftings were found present. In those samples guaranteed, no deficiencies were noted and in two cases where both minimum and maximum guarantees were shown, the higher figures were not sustained. They analyzed from 8.94 per cent. to 13.75 per cent. averaging 11.24 per cent. protein, from 4.30 per cent. to 11.48 per cent., averaging 8.12 per cent. fat and 5.27 per cent. to 10.67 per cent. averaging 7.72 per cent. fiber. The prices ranged from \$45 to \$64 and averaged \$53 a ton.

#### CORN FEED MEAL.

Analyses on pages 110 and 111.

Only 3 samples of corn feed meal were received during the year representing 3 different brands. They were found upon microscopical examination to be as claimed and 1 sample was found deficient in fat. Their composition was constant except in the case of fat which varies considerably in this class of feeds owing to the proportion of the germ of the corn contained therein. They analyzed from 12.25 per cent. to 13.50 per cent. averaging 12.92 per cent. protein, 6.90 per cent. to 11.60 per cent. averaging 9.25 per cent. fat and 4.79 per cent. to 5.50 per cent. averaging 5.03 per cent. fiber. The selling prices were from \$67 to \$70 and averaged \$68 a ton.

### WHEAT OFFALS.

#### WHEAT MIDDLING.

Analyses on pages 110 to 113.

The brands of wheat middlings found being disposed of in the State during the year numbered about one-half as many as were received during the previous year and included 16 different brands and the same number of samples were obtained for analysis. Two of the

samples represented shipments not guaranteed but in this class of products when pure, guarantees are not required to be given. In the case of branded shipments, the guarantees were all sustained upon analysis, with the exception of 1 sample which was found deficient in fat. As many firms are including the so called "mill run of ground screenings" in this class of feeds and as the milling industry was subject to regulations during the period of the war, the amount of wheat middlings sold in the State has been less than normal. This condition was also true in the case of low grade flour middlings which instead of being sold for feeding purposes was included in the flour used for the various grades of war bread and no samples were obtained for analysis during the year. No ground screenings were noted in the samples included in this class. They varied in their composition from 15.25 per cent. to 21.38 per cent. averaging 17.56 per cent. protein, from 3.89 per cent. to 6.25 per cent. averaging 5.09 per cent. fat and from 3.21 per cent. to 7.12 per cent. averaging 5.16 per cent. fiber. The selling prices were from \$46 to \$70 and averaged \$57.94 a ton.

#### WHEAT MIDDLEINGS WITH ADMIXTURES.

Analyses on pages 112 to 117.

In this class were grouped the wheat middlings which included ground grain screenings and the samples of refuse cleaning middlings containing palm oil. Twenty-two samples representing 19 brands, the shipments of 17 different companies were received during the year, all being found guaranteed as required. With the exception of 1 sample found deficient in fat, the guarantees were exceeded and the compositions were correctly given except in the samples of cleaning middlings where the composition was not fully stated and where both wheat and rye middlings together with palm oil were found present in 3 of the samples. They analyzed from 15.06 per cent. to 22.13 per cent. averaging 17.25 per cent. protein, from 3.43 per cent. to 9.88 per cent. averaging 5.65 per cent. fat and from 3.13 per cent. to 10.28 per cent. averaging 6.88 per cent. fiber. The selling prices were from \$42 to \$70 and averaged \$56 a ton.

#### MIXED FEED: WHEAT BY-PRODUCTS.

Analyses on pages 116 and 117.

There were only 5 samples of this class of feeds received during the year representing as many different brands and 1 represented a shipment not guaranteed although this information is not required for pure wheat mixed feed composed of wheat bran and middlings. No deficiencies were noted in the guaranteed samples and the compositions were found to be as claimed. Three brands included the mill

run of ground grain screenings. They analyzed from 16.56 per cent. to 20.06 per cent. averaging 18.26 per cent. protein, from 4.15 per cent. to 5.95 per cent. averaging 4.87 per cent. fat and from 5.87 per cent. to 8.65 per cent. averaging 7.61 per cent. fiber. They sold for from \$40 to \$48 and averaged \$44.20 a ton.

#### WHEAT BRAN.

Analyses on pages 116 to 119.

Wheat bran was not being found for sale during the year in great quantities and only 8 samples representing as many brands were received for analysis. Five samples represented guaranteed shipments and no deficiencies were noted. They were found true to label except in 1 case where a trace of ground grain screenings was present. They analyzed from 15.19 per cent. to 18.31 per cent. averaging 16.56 per cent. protein, from 3.87 per cent. to 5.37 per cent. averaging 4.52 per cent. fat and from 7.33 per cent. to 9.24 per cent. averaging 8.54 per cent. fiber. The prices ranged from \$40 to \$52 and averaged \$45.50 a ton.

#### WHEAT BRAN WITH ADMIXTURES.

Analyses on pages 118 to 121.

Fifteen brands of wheat bran with ground grain screenings were found being sold during the year and as many samples were selected for analysis, all of which represented guaranteed shipments, the product of 14 different firms. The guarantees were all exceeded upon analysis except in one case found deficient in fat. The compositions for each were shown to be wheat bran with ground grain screenings not exceeding mill run and 1 sample was wheat bran and scourings, all of which were found to be as claimed. They varied in their composition from 15 per cent. to 19.44 per cent. averaging 16.39 per cent. protein, from 3.54 per cent. to 5.62 per cent. averaging 4.91 per cent. fat and from 8.47 per cent. to 11.27 per cent. averaging 9.62 per cent. fiber. The selling prices were from \$40 to \$52 and averaged \$45.20 a ton.

#### RYE OFFALS.

#### RYE MIDDLINGS.

Analyses on pages 120 and 121.

Rye middlings are represented by 5 samples including 4 different brands, all but 1 of which were from guaranteed shipments. No deficiencies were noted in the guaranteed samples and the results of

microscopical examinations showed that one contained corn bran and corn siftings and another a small amount of ground grain screenings. They analyzed from 16.44 per cent. to 18.38 per cent. averaging 17.39 per cent. protein, from 3.15 per cent. to 5.06 per cent. averaging 3.97 per cent. fat and from 2.09 per cent. to 6.40 per cent. averaging 4.83 per cent. fibre. They sold for from \$50 to \$60 and averaged \$54.60 a ton.

#### RYE MIDDLEWHEELS WITH ADMIXTURES.

Analyses on pages 122 and 123.

The rye middlings including ground grain screenings not exceeding mill run received and analyzed numbered 5 samples including 5 different brands, all of which were from guaranteed shipments. They were all found to be as certified and no deficiencies occurred. They analyzed from 15.81 per cent. to 18.44 per cent. averaging 17.63 per cent. protein, from 3.45 per cent. to 4.27 per cent. averaging 3.92 per cent. fat and from 5.17 per cent. to 6.81 per cent. averaging 5.96 per cent. fiber. They sold for from \$58 to \$60 and averaged \$59.20 a ton.

#### MIXED FEED. RYE BY-PRODUCTS.

Analyses on pages 122 and 123.

Only 1 sample of rye feed, a mixture of rye bran and rye middlings was obtained for analysis, which was not guaranteed as required. It was found to represent this class of feed and it analyzed 17.88 per cent. protein, 3.33 per cent. fat and 4.57 per cent. fiber and sold for \$62 a ton.

### WHEAT AND RYE OFFALS.

Analyses on pages 122 and 123.

Only 1 sample of this class of feeds was found being sold during the year which was a mixture of wheat and rye middlings obtained from a shipment which was guaranteed as required and which upon analysis was found to be as claimed. It analyzed 15.06 per cent. protein, 3.60 per cent. fat and 5.52 per cent. fiber and sold for \$3.25 per 100 lbs. or at the rate of \$65 a ton.

### OAT BY-PRODUCTS.

#### OAT FEED.

Analyses on pages 122 to 125.

Eleven samples of oat feed representing 6 different brands found being sold in the State were received for analysis and 2 shipments

were not guaranteed as required. This class of feed is the by-product from the milling of oats and consists for the most part of oat hulls with a small proportion of oat middlings and oat shorts, and their analysis in the majority of cases was similar to that of straight oat hulls. Of those guaranteed, 2 were found deficient in both protein and fat and one in fat alone. They varied in their composition from 3.06 per cent. to 8.75 per cent. averaging 6.69 per cent. protein, from 1.08 per cent. to 3.46 per cent. averaging 1.99 per cent. fat and 21.72 per cent. to 28.72 per cent. averaging 25.23 per cent. fiber. The selling prices showing considerable variation and were from \$30 to \$55 averaging \$34.81 a ton.

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### BARLEY OFFALS.

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#### BARLEY MIDDLINGSS.

Analyses on pages 124 and 125.

The feeding stuffs classified as "barley offals" sold in the State during the year represent a new class of feeds resulting from the manufacture of war bread from barley and include the by-product from the milling of barley for barley flour. There were 2 samples representing two different brands of this product classified as barley middlings received for analysis. Both shipments were guaranteed and 1 was found deficient in fat while the protein guarantees of 12 per cent. were considerably exceeded. Very little variation was found in their composition and they contained an average of 16.50 per cent. protein, 3.44 per cent. fat and 3.49 per cent. fiber. The selling prices were from \$2.85 to \$3.50 averaging \$3.18 per 100 lbs. or at the rate of \$63.60 a ton.

#### BARLEY MIXED FEED.

Analyses on pages 124 to 127.

This new class of feed sold during the year has been classified as "barley mixed feed" which is the entire offal from the milling of barley flour from clean barley—and is composed of barley hulls and barley middlings, the product resulting from the manufacture of barley flour for war bread. Fourteen samples were received for analysis which represented 7 different brands, the product of as many companies and were obtained from guaranteed shipments. Most of the samples were shown to contain the mill run of ground screenings in addition to barley hulls and middlings and 2 samples upon examination were found to con-

tain traces of whole weed seeds. No deficiencies in analysis compared with guarantees were observed. They varied in their composition from 10.50 per cent. to 14.69 per cent. averaging 12.55 per cent. protein, from 2.55 per cent. to 3.68 per cent. averaging 3.05 per cent. fat and from 8.87 per cent. to 18.38 per cent. averaging 13.32 per cent. fiber. It will be noted considerable variation in analysis occurred which was largely due to the varying proportions of barley hulls. The selling prices were from \$40 to \$55 and averaged \$47.54 a ton.

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### BUCKWHEAT OFFALS.

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### BUCKWHEAT MIDDLINGS.

Analyses on pages 126 and 127.

Only 3 samples of as many brands of buckwheat middlings were received and analyzed for which no guarantees were given and which are not required for this class of feeds when pure. They analyzed from 22.63 per cent. to 32.94 per cent. averaging 27.50 per cent. protein, from 4.70 per cent. to 7.78 per cent. averaging 6.39 per cent. fat and from 1.98 per cent. in a sample containing a very small amount of hulls to 11.82 per cent. averaging 7.41 per cent. fiber. They sold for from \$60 to \$68 and averaged \$64.40 a ton.

### BUCKWHEAT FEED.

Analyses on pages 126 and 127.

This class of feeding stuffs is represented by only 1 sample and was a mixture of buckwheat middlings and buckwheat hulls. It analyzed 14.88 per cent. protein, 2.58 per cent. fat and 17.40 per cent. fiber, the fat being less than claimed, and sold for \$2.20 per 100 lbs. or \$44 a ton.

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### ALFALFA MEAL.

Analyses on pages 126 to 129.

Five samples of alfalfa meal including four brands were received and analyzed which compared with the number received last year indicates that alfalfa meal is not being sold in great quantities. The shipments sampled were all guaranteed and 1 sample was found to be

deficient in both protein and fat. Considerable variations were shown in their analysis which ranged from 13.75 per cent. to 19.50 per cent. averaging 15.71 per cent. protein, from 1.44 per cent. to 2.16 per cent. averaging 1.86 per cent. fat and from 22.22 per cent. to 31.31 per cent. averaging 26.39 per cent. fiber. The selling prices were from \$48 to \$57 and averaged \$52.60 a ton.

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### DRIED BEET PULP.

Analyses on pages 128 and 129.

Six shipments of dried beet pulp including 2 different brands were submitted for analysis and they were found to be properly guaranteed as required, no deficiencies being noted. They varied in their composition from 8.88 per cent. to 11.75 per cent. averaging 10.23 per cent. protein, from 0.61 per cent. to 1.40 per cent. averaging 0.86 per cent. fat and from 15.86 per cent. to 19.18 per cent. averaging 17.68 per cent. fiber. They sold for from \$50 to \$65 and averaged \$54.83 a ton.

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### MIXED FEEDS—PROPRIETARY AND MISCELLANEOUS.

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Two-thirds of 763 of the samples of feeding stuffs received and analyzed during the year consisted of the various kinds of mixed feeds which are sold in the State in such large quantities and they included 386 different brands and kinds. As a rule they have distinctive or proprietary names and they are classified in this report as "Proprietary" feeds in 10 subdivisions each including feeds of like character as follows: Dairy Feeds, Dairy Feeds with Molasses, Stock Horse and Mule Feeds, Stock Horse and Mule Feeds with Molasses, Calf Meals, Swine Feeds, Chop Feeds, Miscellaneous Chop Feeds, Miscellaneous Feeds and Poultry Foods. Of the total number received, 35 were obtained from shipments which were not guaranteed, however, many of these cases where guarantees were not shown were mixtures of whole grains which are not required to be guaranteed. Of the number guaranteed, 10 samples were deficient in both protein and fat, 13 in protein alone and 69 in fat alone. The guarantees were, as a rule, exceeded. There were 55 samples showing both minimum and maximum guarantees and 24 of these failed, upon

analysis, to meet the higher claims. Approximately 10 per cent. of the samples were found, upon microscopical examination, to vary in their compositions shown upon sacks or attached cards. These variations included feeds in which certain ingredients claimed were not found present, others where additional ingredients were noted such as cocoa shell meal, oat hulls and velvet bean feed, samples containing small and large amounts of whole weed seeds. A few also contained peanut hulls which are prohibited and a few samples were damaged and mouldy and unfit for feeding purposes. There were also samples received representing a number of brands which contained oat hulls and showing, upon analysis, fiber in excess of the amount permitted which were sold in violation of the law. Several samples were received of the brands which were not registered as will be noted and some of these were sold contrary to requirements.

#### PROPRIETARY DAIRY FEEDS.

Analyses on pages 128 to 161.

In this class of mixed feeds were placed the 99 samples of proprietary dairy feeds received during the year, which included those of the more concentrated type. With the exception of 1 sample, all were obtained from shipments labeled with the guaranteed analysis and represented 37 different brands, the product of 28 companies. They were guaranteed to contain from 15.50 per cent. to 26.00 per cent. protein, the average showing 20 per cent. protein guarantees. Only 1 was found to be deficient in both protein and fat, 2 in protein alone and 17 were deficient in fat alone. The majority of the guarantees being exceeded. They were composed largely of the more concentrated standard by-products without molasses and the results of microscopical examination showed the ingredients claimed to be present in the majority of cases. The ingredients in 15 samples were not found fully or correctly given, 4 were supposed to contain clipped oat by-product and oat meal mill by-product was identified instead, and 2 samples contained a small amount of whole weed seeds and 1 a small amount of peanut hulls. There were 4 brands, 2 of which were not registered and each represented by several samples which contained oat hulls and an excessive amount of fiber which accordingly were sold in violation of the law. Four samples were obtained from shipments showing both minimum and maximum guarantees and 1 of these failed to meet the higher figure. With these exceptions, this class of feeds were free from criticism with respect to their composition and character. They varied considerably in their composition and analyzed from 15.81 per cent. to 29.38 per cent. averaging 23.91 per cent. protein, from 3.21 per cent. to 7.31 per cent. averaging 5.45 per cent. fat and from 6.00 per cent. to 18.33 per cent. averaging 10.43 per cent. fiber. The retail selling prices ranged from \$45 to \$78 and averaged \$62.91 a ton.

## PROPRIETARY DAIRY FEEDS WITH MOLASSES.

Analyses on pages 160 to 193.

The mixed feeds classified as proprietary dairy feeds with molasses are represented by 126 samples and 46 brands, the output of 32 companies. All but 2 were obtained from guaranteed shipments and 4 of the samples were branded with both minimum and maximum guarantees which, upon analysis, were not sustained. This class of feeds are of the more concentrated type with molasses forming one of the ingredients, largely used in dairy feeds. They were guaranteed to contain from 12.50 per cent. to 25.00 per cent. protein, and of the different brands included, one-third were guaranteed 16.00 per cent. to 18.00 per cent. protein and one-half contained the guarantee of 20.00 per cent. or more protein. Six samples were found deficient in both protein and fat, 5 in protein alone and 20 in fat alone, showing that, as a class, the deficiencies were most numerous. There were 4 brands which were not registered, which included several samples containing oat hulls with an excessive amount of crude fiber and sold contrary to requirements. Those feeds which were found to have incorrect compositions numbered 32 samples and included cases where ingredients claimed were not found and where other products not named were identified such as coeca shell meal, ground buckwheat hulls, velvet bean feed, brewers dried grains and linseed oil meal. There were 5 samples in which oat meal mill by-product had been substituted for clipped oat by-product, and 36 samples contained small amounts of small whole weed seeds. Fifteen samples, 8 of which represented 1 brand, contained oat hulls in excess of the amount permitted and 2 samples of a brand were found to contain flax plant refuse in excessive amounts. One sample was claimed to contain molasses which was not detected and the product was identified as a cottonseed feed. This class of mixed feed varied considerably in their composition and ranged in protein from 9.02 per cent. to 31.01 per cent. averaging 19.26 per cent., in fat from 1.39 per cent. to 6.85 per cent. averaging 4.46 per cent. and in fiber from 7.15 per cent. to 23.05 per cent. averaging 12.63 per cent. The prices also showed wide differences ranging from \$43 to \$75 and averaged \$54.74 a ton.

## PROPRIETARY STOCK, HORSE AND MULE FEEDS.

Analyses on pages 192 to 215.

The mixed feeds which were branded to indicate that they were largely intended to be used for horse and mule, as well as stock feeding and which are of a less concentrated type in their protein content than were the dairy feeds, were classified as proprietary stock, horse and mule feeds and numbered 96 samples representing 45 different brands, the product of 36 manufacturing firms. All of the shipments sampled, with the exception of 3, were labeled with guaranteed analysis as required. They were guaranteed to contain from 6.00

per cent. to 16 per cent. of protein, the majority being guaranteed from 9.00 per cent. to 10 per cent. protein and they were composed for the most part of ground and whole grains with such by-products as wheat and rye bran and middlings, hominy feed, linseed oil meal, corn oil cake meal, corn bran, cottonseed meal and oat meal mill by-product, oat middlings, oat shorts and oat hulls. No deficiencies were noted in the case of protein, however, 11 samples were found to be deficient in fat but in the majority of cases the guarantees were materially exceeded upon analysis. Two samples of 1 brand not registered were found to contain excessive amounts of oat hulls and flax plant refuse with twice as much fiber as permitted and were accordingly sold contrary to the requirements. In 17 cases the guarantees varied from the claims made and in 11 of these samples where barley was claimed, none was detected. Eight brands represented by 30 samples which contained oat hulls showed excessive amounts of crude fiber and another brand which contained cottonseed hulls also exceeded the amount of fiber permitted. There were 10 samples which represented shipments which were labeled with both minimum and maximum guarantees and 3 of this number failed, upon analysis, to meet the higher figures. The variations in this class of mixed feeds showed the protein to range from 8.84 per cent. to 18.69 per cent. averaging 11.83 per cent., in fat from 2.48 per cent. to 10.56 per cent. averaging 4.40 per cent. and in fiber from 3.40 per cent. to 22.80 per cent. in the samples containing flax plant refuse and cottonseed hulls and averaged 9.86 per cent. The selling prices were from \$40 to \$75 and averaged \$60.79 a ton.

#### PROPRIETARY STOCK, HORSE AND MULE FEEDS WITH MOLASSES.

Analyses on pages 214 to 227.

Those samples of feeds received during the year although intended largely for the feeding of horses and mules, as well as other stock, which included molasses as an ingredient, numbered 93 and included 57 brands the output of 33 firms. All the shipments from which samples were obtained were found labeled with guaranteed analyses as required, and 3 which were branded with both minimum and maximum guarantees, with one exception, met the higher guarantee upon analysis. This class of feeds, with the exception of 7 samples, were guaranteed to contain from 9 per cent. to 10 per cent. of protein and two-thirds of the number received were composed of corn, oats, alfalfa and molasses, 7 of which also contained barley. There were 9 cases where the composition was not exactly as claimed, several ingredients being absent, more especially barley. Five samples were found to contain small amounts of whole weed seeds, 3 were mouldy and damaged and 7 which contained oat hulls, including those of 4 brands not registered, contained oat hulls and excessive amounts of

crude fiber. With the exception of 1 sample deficient in protein and 1 in fat, the guarantees were exceeded and they analyzed from 8.95 per cent. to 18.00 per cent. averaging 11.50 per cent. protein, from 0.92 per cent. to 5.24 per cent. averaging 2.92 per cent. fat and from 6.17 per cent. to 21.66 per cent. in a sample composed of alfalfa and molasses and averaged 11.34 per cent. fiber. The selling prices ranged from \$46 to \$84 and averaged \$63.51 a ton.

#### PROPRIETARY CALF MEALS.

Analyses on pages 226 to 233.

There were 22 samples received during the year representing 11 different brands, the product from as many companies classified as calf meals and designed more especially for calf feeding. All but 1 were selected from guaranteed shipments and 1 sample was found deficient in both protein and fat and 3 in fat alone. These feeds were of the more concentrated type ranging in their protein guarantees from 16 per cent. to 33 per cent. They were composed for the most part of such by-products as linseed oil meal, cocoanut oil meal, cottonseed meal, blood flour, meat and bone scrap, bone meal, oat meal, wheat meal, dried milk, flax seed meal, corn meal, barley malt, locust bean meal, cocoa shell meal, hominy feed, wheat offal feeds together with varying amounts of ground beans, peas, lentils, foenugreek, anise seed, salt, etc. Only slight variations from the claimed list of ingredients were noted in two cases. They varied in their composition from 18.50 per cent. to 35.50 per cent. averaging 25.21 per cent. protein, from 3.34 per cent. to 9.52 per cent. averaging 5.59 per cent. fat and from 1.97 per cent. to 7.22 per cent. averaging 4.43 per cent. fiber. The selling prices which showed wide ranges were from \$58 to \$120 and averaged \$96.20 a ton.

#### PROPRIETARY SWINE FEEDS.

Analyses on pages 232 to 239.

The mixed feeds labeled and branded for swine feeding are represented by 34 samples which were obtained from guaranteed shipments and included 16 different brands, the output of 13 companies. They were guaranteed to contain from 12 per cent. to 40 per cent. protein, and the results of analyses showed that 1 sample was deficient in both protein and fat, 2 in protein alone and 2 in fat alone. Five of the brands were not registered. The majority of guarantees, however, being considerably exceeded as will be noted. The ingredients of which they were composed included linseed oil meal, peanut oil meal, palm kernel meal, corn germ meal, digester tankage, blood flour, distillers' dried grains, flax seed, ground beans, peas and flax seed, anise seed, locust bean meal, wheat middlings, ground alfalfa meal, ground grain screenings, dried buttermilk, charcoal and salt.

Slight variations from the ingredients claimed were noted in 7 cases. A few of the samples also contained humus which has very little value for feeding purposes. This class of feeds varied in their analysis from 9.62 per cent. to 35.56 per cent. averaging 19.45 per cent. protein, from 2.64 per cent. to 14.32 per cent. averaging 5.89 per cent. fat and from 4.19 per cent. to 18.67 per cent. averaging 8.18 per cent. fiber. The prices which showed wide variations were from \$50 to \$104 and averaged \$69.56 a ton.

#### PROPRIETARY CHOP FEEDS.

Analyses on pages 238 to 245.

The mixed feeds having distinctive brand names sold as chop feeds and composed of such products as corn, ear corn, oats, barley, rye, wheat bran, wheat middlings, hominy feed, corn feed meal, cotton-seed meal and oat middlings, oat shorts and oat hulls, were classified as proprietary chop feeds. The 25 samples received for analysis included the product of 10 firms and 12 brands which were all secured from guaranteed shipments. They were nearly all guaranteed to contain from 8 per cent. to 9 per cent. of protein, 4 showing both minimum and maximum guarantees, only 1 of which met the higher figure, and the results of analysis showed that 5 were deficient in fat. Variations from the claimed compositions were found in 3 cases, 3 samples represented un-registered brands, 5 were found to contain oat hulls and excessive amounts of crude fiber. As a rule they were clean in their general appearance, only 1 sample containing a trace of whole weed seeds. The variations in composition were from 8 per cent. to 13.50 per cent. averaging 10.93 per cent. protein, from 2.92 per cent. to 6.21 per cent. averaging 4.03 per cent. fat and from 4.90 per cent. to 12.87 per cent. averaging 8.69 per cent. fiber. The prices were from \$51 to \$75 and averaged \$63.68 a ton.

#### MISCELLANEOUS CHOP FEEDS.

Analyses on pages 244 to 247.

There were 22 samples of feeds received and analyzed which, lacking distinctive brand names and including chopped or ground whole grains and mixtures of whole grains with by-product feeds, were classified as miscellaneous chop feeds. Thirteen of the samples were obtained from shipments not showing guarantees but in these cases as they were the product of whole grains or composed of whole grains, guarantees, with one exception, were not required. Each represented a separate brand from 17 firms and included 7 corn chops showing averages of 9.00 per cent. protein, 3.26 per cent. fat, 1.32 per cent. fiber and selling at \$3.91 per 100 pounds; 1 oat chop analyzing 13.38 per cent. protein, 5.73 per cent. fat, 7.07 per cent. fiber selling at \$3.10 per 100 pounds; 7 corn and oats chop averaging

11.04 per cent. protein, 4.51 per cent. fat, 5.02 per cent. fiber, selling at \$68.29 a ton; 1 corn, oats and barley chop analyzing 13.13 per cent. protein, 4.72 per cent. fat and 5.07 per cent. fiber, selling at \$3.50 per 100 pounds; 1 corn, oats and rye chop analyzing 13.19 per cent. protein, 4.18 per cent. fat and 2.50 per cent. fiber, selling at \$3.20 per 100 pounds and 5 mixed chop feeds which analyzed from 10.94 per cent. to 12.88 per cent. protein, from 2.56 per cent. to 7.23 per cent. fat and from 5.20 per cent. to 8.63 per cent. fiber which sold at an average price of \$3.23 per 100 pounds. Of the samples guaranteed, 3 were found deficient in fat. Several of the samples of corn chop, the sample of corn, oats and barley chop and several of the mixed chop feeds were not in prime condition as they were found to be damaged and mouldy.

#### MISCELLANEOUS FEEDS.

Analyses on pages 246 to 249.

There were 6 samples of feeds obtained by agents for analysis classified as miscellaneous, none of which were registered, which consisted of 3 samples of corn meal products not offered for sale as feeding stuffs, a sample of ground ear corn which was damaged and mouldy and a sample of cracked corn siftings. The character of these products together with the analysis which showed considerable variation will be observed by referring to table IV.

#### PROPRIETARY POULTRY FOODS.

Analyses on pages 248 to 285.

The poultry foods sold during the year are represented by 180 samples of 134 different brands of the mixed feeds of this class, the output of 62 manufacturing companies. They were grouped and are tabulated in table IV. for comparison in 2 sub-divisions of "Scratch Feed" and "Mash Feed." The general character of these feeds judging from the results of examination of the samples obtained show considerable room for improvement especially in those feeds which were found to contain varying quantities of whole weed seeds.

The scratch feeds which were, with a few exceptions, composed of cracked and whole grains with and without grit and charcoal, numbered 115 samples and 89 brands. Eight were from shipments not labeled with guarantees and in those mixtures of whole grains not including grit and charcoal, guarantees are not required. Two-thirds of the samples were guaranteed to contain 10 per cent. of protein and 7 were found to be deficient in fat, the majority of the guarantees being exceeded. There were 7 brands not registered found being sold in the State and 4 of these contained weed seeds in various amounts. Nearly one-half of the samples of this class were found to contain whole weed seeds, 17 containing large amounts of from 2½

per cent. to 18 per cent. averaging 9 per cent. and there were 34 samples containing whole weed seeds in small amounts. Four samples of Schumacher Little Chick Feed contained from 12 per cent. to 18 per cent. of whole weed seeds. Other slight variations in compositions were noted in 19 samples and 9 of the scratch feeds presented an inferior appearance owing to their being slightly damaged and mouldy. These mixed feeds varied in their composition from 8.63 per cent. to 17.13 per cent. averaging 11.54 per cent. protein, from 1.62 per cent. to 6.25 per cent. averaging 3.47 per cent. fat and from 1.13 per cent. to 4.64 per cent. averaging 2.82 per cent. fiber. The selling prices showed wide variations of from \$62 to \$120 and averaged \$87.20 a ton.

The poultry foods received for analysis which were classified as mash feeds numbered 65 samples and 45 brands, all but 2 of the shipments were found to be labeled with the guaranteed analysis and list of ingredients as required. This class of poultry foods is of the more concentrated type showing considerable variation in their composition and were guaranteed to contain from 6 per cent. to 24 per cent. protein, about three-fourths being guaranteed to furnish from 15 per cent. to 20 per cent. protein. The results of analyses showed that 1 was deficient in both protein and fat and 3 in protein alone. Ten samples were guaranteed with both minimum and maximum guarantees and 5 of these failed to meet the higher guarantees for protein. Six brands were not registered. As a rule they consisted principally of mixtures of ground whole grains with such by-products as cottonseed meal, linseed oil meal, palm kernel meal, distillers' dried grains, wheat bran, wheat middlings, corn feed meal, corn gluten feed, buckwheat middlings, alfalfa meal, meat scrap, fish scrap, ground grain screenings, malt sprouts, blood flour, cocoa shell meal, foenugreek, anise seed, powdered limestone, dried milk, charcoal and salt. A large proportion of the samples as will be noted by referring to table IV., were found, upon microscopical examination to vary in composition from the ingredients claimed, where certain products were omitted and in some cases others noted which were not claimed. Samples, however, were as a rule, clean in their general appearance and only in a few cases were small amounts of whole weed seeds noted. This class also varied considerable in its composition ranging from 11.69 per cent. to 27.94 per cent. averaging 19.36 per cent. protein, from 2.42 per cent. to 6.65 per cent. averaging 4.82 per cent. fat and from 3.88 per cent. to 11.33 per cent. averaging 6.89 per cent. fiber. The selling prices were from \$56 to \$100 and averaged \$75.80 a ton.

## ANIMAL BY-PRODUCTS.

Analyses on pages 284 to 289.

The samples of meat scraps, meat and bone scraps, digester tankage and fish scrap received for analysis during the year and classified as animal by-products, numbered 44, all but one of which was obtained from guaranteed shipments and included 23 brands, the output of 16 companies. They were found upon analysis to include 1 deficient in both protein and fat, 8 deficient in protein alone and 2 in fat alone. Seven samples were guaranteed with both minimum and maximum guarantees for protein and none of these met the higher guarantees. They were, as a rule, found to be as certified with the exception of 2 samples which contained traces of the particles of glass and bits of stones which, no doubt, were accidentally introduced. They varied considerably in their composition, the meat scraps analyzing from 40 per cent. to 55 per cent. in protein, while the brands of tankage contained protein of from 50 per cent. to 70 per cent.

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## CONDIMENTAL STOCK AND POULTRY FOODS.

Analyses on pages 288 and 289.

Only one sample of this class of feeding stuffs was received as will be noted namely Colonial Food Digester which analyzed 24.88 per cent. protein, 4.16 per cent. fat, 9.76 per cent. fiber showing slight variations from the guarantees and it was composed of linseed oil meal, foenugreek, sulphur, salt, epsom salt, potassium bi-tartrate and charcoal.

## ANALYSES OF FEEDING STUFFS COLLECTED BY SPECIAL AGENTS.

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The results of chemical analyses and the microscopical examinations of each official sample of feeding stuffs obtained during 1918 by special agents of the Department have been tabulated and arranged in classes or groups for comparison in Table IV which follows, like feeds and brands being placed together and where two or more samples of the same kind, brand or class were analyzed, the average results are shown. The samples are included in the order of classification indicated in Table II and are placed in alphabetical order of the name of manufacturers or importers and the brand names under each in the same order. In addition to the results of examination, the names and addresses of the selling agents or dealers from whom the samples were secured, the guarantees found upon sacks or attached cards and the selling prices at the rate of 100 lbs. or a ton are shown. The several classes of feeds will be found in Table IV under the following general headings and sub-headings.

**OIL CAKE MEALS** including cottonseed meal, cottonseed feed, old process linseed oil meal and cocoanut oil meal.

**DISTILLERY AND BREWERY BY-PRODUCTS** including distillers' dried grains largely from corn, distillers, yeast and vinegar dried grains and brewers' dried grains.

**MAIZE BY-PRODUCTS** including corn gluten feed, hominy feed, corn bran and corn feed meal.

**WHEAT OFFALS** including wheat middlings, wheat middlings with admixtures, mixed feed: wheat by-products, wheat bran and wheat bran with admixtures.

**RYE OFFALS** including rye middlings, rye middlings with admixtures and rye mixed feeds.

**WHEAT AND RYE OFFALS** including wheat and rye middlings.

**OAT BY-PRODUCTS** including oatmeal and oat feed.

BARLEY OFFALS including barley middlings and barley mixed feed.

BUCKWHEAT OFFALS including buckwheat middlings.

ALFALFA MEAL.

DRIED BEET PULP.

MIXED FEEDS: PROPRIETARY AND MISCELLANEOUS, including proprietary dairy feeds, proprietary dairy feeds, with molasses, proprietary stock, horse and mule feeds, proprietary stock, horse and mule feeds with molasses, proprietary calf meals, proprietary swine feeds, proprietary chop feeds, miscellaneous chop feeds, miscellaneous feeds and proprietary poultry foods.

ANIMAL BY-PRODUCTS.

CONDIMENTAL STOCK AND POULTRY FOODS.

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
	OIL CAKE PRODUCTS. COTTONSEED MEAL.	Mills.			
4579	ASHCRAFT-WILKINSON CO., ATLANTA, GA. Crown Brand,* -----	Wilkes-Barre, Miner-Hillard Milling Co.	Per et. 8.79	Per et. 41.94	Per et. 38.62
4288	F. W. BRODE & CO., MEMPHIS, TENN. Dove Brand Prime, -----	Ulster, H. O. Ayer, -----	8.70	42.81	38.63
4156	Dove Brand Prime, -----	Emporium, Emporium Milling Co.	7.89	37.81	38.62
4001	Dove Brand Prime, -----	Johnstown, J. H. Hershner & Sons,	7.02	41.13	38.63
4341	Dove Brand Prime, -----	Oxford, Oxford Grain & Hay Co.	8.35	42.31	38.63
	S. P. DAVIS, LITTLE ROCK, ARK.	Average, -----	7.99	41.02	-----
4008	Good Luck Brand, -----	Somerset, John G. Emert,	6.85	43.38	41.00
3619	Good Luck Brand, -----	Johnstown, Swope Brothers.	7.27	47.06	41.00
		Average, -----	7.06	45.22	-----
3082	Veribest Brand, -----	Bedford, Davidson Brothers.	7.27	41.63	38.50
4242	Veribest Brand, -----	Chambersburg, Diehl, Omwake & Diehl.	8.01	41.75	38.50
3843	Veribest Brand, -----	Kittanning, J. A. Gault, Co.	8.19	39.19	38.50
4110	Veribest Brand, -----	Stroudsburg, Frank LeBar,	7.97	39.69	38.50
		Average, -----	7.86	40.57	-----
3889	EAST ST. LOUIS COTTON OIL CO., NATIONAL STOCK YARDS, ILL. Cottonseed Meal,* -----	Clearfield, J. T. Murphy,--	9.12	40.06	38.5-41
3884	H. F. H. EBERTS, LITTLE ROCK, ARK. Milko,* -----	Morrisdale, Morrisdale Feed & Grain Co.	7.70	37.75	38.62-43
3887	Milko,* -----	Clearfield, J. T. Murphy,--	7.97	38.13	38.62-43
		Average, -----	7.83	37.94	-----
4558	HAYES GRAIN & COMMISSION CO., LITTLE ROCK, ARK. Supreme Brand, -----	Homer, Thomas K. George,	8.75	42.19	38.62
4198	HUMPHREYS-GODWIN CO., MEMPHIS, TENN. Forfat Brand, -----	Knoxville, Knoxville Roller	8.20	37.75	38.55
4578	Forfat Brand, -----	Wilkes-Barre, Miner-Hillard Milling Co.	8.61	41.13	38.55
4016	Forfat Brand, -----	DuBois, A. T. Sprinkle, --	8.43	38.31	38.55
		Average, -----	8.41	39.06	-----

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
6.80	6.00	7.60	10.00	\$3 40	Made from fully decorticated cottonseed.	As certified, -----	4579
8.48 6.13	6.00 6.00	10.17 10.53	10.00 12.00	2 90 3 50	Made from cottonseed,-- Made from cottnoseed,--	As certified, ----- Cottonseed meal and excessive amount of hulls.	4288 4156
7.14	6.00	8.05	12.00	3 20	Made from cottonseed,--	As certified, -----	4001
6.85	6.00	7.15	12.00	3 00	Made from cottonseed,--	As certified, -----	4341
7.15	-----	8.97	-----	3 15			
8.02	6.00	8.35	9.00	3 50	Made from decorticated cottonseed.	As certified, -----	4008
7.69	6.00	8.38	9.00	3 25	Made from decorticated cottonseed.	As certified, -----	3619
7.86	-----	8.36	-----	3 38			
7.89	6.00	10.08	10.00	56 50	Made from decorticated cottonseed.	As certified, -----	3682
8.26	6.00	6.70	10.00	62 00	Made from decorticated cottonseed.	As certified, -----	4242
7.44	6.00	9.26	10.00	3.45	Made from decorticated cottonseed.	As certified, -----	3843
8.71	6.00	7.75	10.00	3 10	Made from decorticated cottonseed.	As certified, -----	4110
8.08	-----	8.44	-----	62 38			
6.39	6-7.5	9.29	12.00	3 40		Cottonseed meal, -----	3889
5.91	5.5-9	12.59	8-10	3 25	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	3884
5.41	5.5-9	12.35	8-10	3 50	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	3887
5.66	-----	12.47	-----	3 38			
6.65	6.00	8.25	8.00	3.25	Made from pressed cottonseed.	As certified, -----	4558
7.18	5.00	10.27	12.00	3 00	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	4198
7.45	5.00	8.20	12.00	3 40	Made from pressed cottonseed.	As certified, -----	4578
6.20	5.00	10.97	12.00	3 25	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	4016
6.94	-----	9.81	-----	3 22			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4313	L. E. LOVITT & COMPANY, MEMPHIS, TENN. Cottonseed Meal, -----	Washington, Washington Milling Co.	Per et. 8.97	Per et. 37.75	Per et. 41.00
4090	W. C. NOTHERN, LITTLE ROCK, ARK. Butterfly,* -----	Johnstown, A. F. Stutzman & Son.	8.60	33.50	38.62
4217	PLANTERS COTTON OIL CO., DOTHAN, ALA. High Grade,* -----	Lewisburg, C. W. Steese, --	8.73	40.00	41.00
4662	F. A. SHINGLEUR, JACKSON, MISS. Shingstock Prime, -----	Elizabethtown, Muth Brothers.	9.13	41.44	38.62
	COTTONSEED FEEDS. M. F. BARINGER, PHILADELPHIA, PA.	Total average, ---	8.20	40.31	-----
4432	Goodlow, -----	New Oxford, J. H. Duttera.	9.36	36.00	36.00
3905	Goodlow, -----	Newville, S. E. Shenk & Sons.	9.14	36.31	36.09
		Average, -----	9.25	36.16	-----
3911	M. F. B., -----	Quakertown, S. S. Detweiler.	9.20	19.13	20.00
3741	M. F. B., -----	Easton, F. C. Williams,--	8.98	18.75	20.00
		Average, -----	9.09	18.94	-----
4633	THE J. E. BARTLETT CO., JACKSON, MICH. Farm Brand, "Straight,"* -----	York, F. Loucks & Son, --	9.02	39.75	36-39
4550	Farmer Brand, "Straight,"* -----	Corry, Miller & Parsons,--	7.80	39.75	36.00
4965	Farm Brand, "Straight,"* -----	Farrell, J. B. Roux, -----	9.52	36.75	36-39
		Average, -----	8.78	38.75	-----
4231	N. P. BATTLE & CO., MEMPHIS, TENN. Battle Brand Good, -----	Canton, Canton Mercantile Co.	9.20	41.44	36.06
4193	Battle Brand Good, -----	Knoxville, Deerfield Milling Co.	7.43	36.13	36.05
		Average, -----	8.31	38.79	-----
3666	F. W. BRODE & CO., MEMPHIS, TENN. Jay Brand, -----	Myerstown, E. L. Bleistein,	8.65	36.19	36.00
4286	Jay Brand, -----	Bradford, L. A. Fischer & Co.	9.22	38.63	36.00
4268	Jay Brand, -----	Towanda, F. H. Hagerman.	8.35	39.38	36.00
4515	Jay Brand, -----	Brookville, Kline's Sifter Mills.	9.50	38.88	36.00
4425	Jay Brand, -----	Franklin, J. H. Lavery's Sons.	8.80	35.88	36.00
3858	Jay Brand, -----	Beaver Falls, M. W. McCandless.	8.97	37.06	36.00
4375	Jay Brand, -----	Spruce Creek, The Spruce Creek Milling Co.	9.30	37.38	36.00
		Average, -----	8.97	37.63	-----

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et.	Per et.	Per et.	Per et.	\$ 3 15	-----	Cottonseed meal and excessive amount of hulls.	4313
6.81	7.50	10.19	9.00				
6.93	6.00	12.47	8.00	3 50	Made from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	4690
7.52	6.00	10.72	9.00	60 00	Made from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	4217
6.88	6.00	10.30	10.00	3 40	-----	Cottonseed meal and excessive amount of hulls.	4662
7.12	-----	9.52	-----	64 84			
6.95	5.00	11.80	16.00	2 90	-----	Cottonseed feed, -----	4432
6.27	5.00	11.42	16.00	59 00	-----	Cottonseed meal and cottonseed hulls.	3905
6.61	-----	11.61	-----	58 50			
3.64	3.00	22.93	26.00	2 35	Cottonseed meal and ground cottonseed hulls.	As certified, -----	3911
3.58	3.00	24.04	26.00	2 60	Cottonseed Meal and ground cottonseed hulls.	As certified, -----	3741
3.61	-----	23.48	-----	2 48			
6.75	5-8	10.17	10-22	3 50	-----	Cottonseed meal and cottonseed hulls.	4633
6.99	5.00	10.30	22.00	3 20	-----	Cottonseed meal and cottonseed hulls.	4550
6.69	5-8	10.42	10-22	2 80	-----	Cottonseed meal and cottonseed hulls.	4065
6.81	-----	10.29	-----	3 17			
7.97	5-6	8.34	10.00	3 00	-----	Cottonseed meal and cottonseed hulls.	4231
7.31	5-6	9.65	10.00	3 00	-----	Cottonseed meal and cottonseed hulls.	4193
7.64	-----	8.99	-----	3 00			
7.60	5.00	12.56	14.00	3 00	Made from cottonseed,--	Cottonseed meal and cottonseed hulls.	3606
8.13	5.00	9.45	14.00	3 10	Cottonseed meal and cottonseed hulls.	As certified, -----	4286
6.70	5.00	9.28	14.00	3 00	Cottonseed meal and cottonseed hulls.	As certified, -----	4268
6.43	5.00	11.40	14.00	3 25	Cottonseed meal and cottonseed hulls.	As certified, -----	4515
5.90	5.00	13.25	14.00	3 10	Cottonseed meal and cottonseed hulls.	As certified, -----	4425
10.59	5.00	8.67	14.00	3 20	Cottonseed meal and cottonseed hulls.	As certified, -----	3858
7.61	5.00	9.30	14.00	3 35	Cottonseed meal and cottonseed hulls.	As certified, -----	4375
7.57	-----	10.55	-----	3 14			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
4698	THE BUCKEYE COTTON OIL CO., CINCINNATI, OHIO. Buckeye Good, -----	Philadelphia, Ezl. Dunwoody Co.	Per ct. 7.06	Per ct. 42.06	Per ct. 36.00
4173	Buckeye Good, -----	Wellsboro, Equity Co-operative Exchange.	8.01	39.44	36.00
4455	Buckeye Good, -----	Erie, Nickel Plate Flour Mills.	7.50	36.88	36.00
3953	Buckeye Good, -----	Hatfield, Estate of George S. Snyder.	7.72	35.19	36.00
4491	Buckeye Good, -----	Meshoppen, C. B. Tyler, --	8.59	38.06	36.00
3804	Buckeye Good, -----	Butler, Geo. Walter & Sons.	7.00	39.69	36.00
		Average, -----	7.66	38.55	-----
4697	Buco, -----	Philadelphia, Ezl. Dunwoody Co.	8.76	20.88	20.00
3940	Buco, -----	West Point, Heebner & Kreibel.	6.66	19.75	20.00
		Average, -----	7.71	20.32	-----
4142	C. L. CAMPBELL & CO., LITTLE ROCK, ARK. Baby Brand, -----	Newport, W. H. Kepner, --	8.08	36.56	36-38.5
4035	S. P. DAVIS, LITTLE ROCK, ARK. Beauty Brand, -----	Titusville, Grange Milling Co.	9.11	39.00	36.00
4603	Beauty Brand, -----	Honesdale, Honesdale Milling Co.	8.47	37.81	36.00
4500	Beauty Brand, -----	Skinner Eddy, C. A. Jayne,	8.79	38.31	36.00
4111	Beauty Brand, -----	Stroudsburg, Frank LeBar,	9.22	38.06	36.00
		Average, -----	8.89	38.30	-----
4490	Davis,* -----	Meshoppen, C. B. Tyler,--	8.38	21.31	20.00
4368	EAST ST LOUIS COTTON OIL CO., NATIONAL STOCK YARDS, ILL. St. Clair Brand,* -----	St. Marys, Hall, Kaul & Hyde Co.	9.18	34.81	36.00
3621	St. Clair Brand,* -----	Johnstown, Johnstown Milling Co.	8.59	39.56	36.00
4361	St. Clair Brand,* -----	Ridgway, Smith Brothers Co.	8.45	38.44	36.00
4316	St. Clair Brand,* -----	Washington, Washington Grain & Feed Co.	8.65	37.31	36.00
		Average, -----	8.71	37.53	-----
3904	HAYES GRAIN & COMMISSION CO., LITTLE ROCK, ARK. Arkansas Brand, -----	Carlisle, L. L. Rice, -----	7.03	34.69	36-38.62
3873	C. C. HEWITT, MONTGOMERY ALA. Good,* -----	Ellwood City, W. W. Davidson.	8.44	36.25	33.40
3772	HUMPHREYS GODWIN CO., MEMPHIS, TENN. Danish Brand, -----	Irwin, H. Altman & Son,--	5.91	44.94	36.00
4330	Danish Brand, -----	New Castle, City Roller Mills.	10.04	33.06	36.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or ewt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 7.00	Per ct. 5.00	Per ct. 9.65	Per ct. 14.00	\$ 66 00	Cottonseed meal and cottonseed hulls.	As certified, -----	4698
6.14	5.00	10.58	14.00	3 25	-----	Cottonseed meal and cottonseed hulls.	4173
6.00	5.00	11.42	14.00	3 10	-----	Cottonseed meal and cottonseed hulls.	4455
5.59	5.00	13.61	14.00	2 80	-----	Cottonseed meal and cottonseed hulls.	3953
6.10	5.00	10.55	14.00	3 20	-----	Cottonseed meal and cottonseed hulls.	4491
7.10	5.00	9.54	14.00	63 00	-----	Cottonseed meal and cottonseed hulls.	3804
6.32	-----	10.89	-----	62 67	-----	-----	-----
3.38	3.50	22.30	27.00	50 00	Cottonseed meal and cottonseed hulls.	As certified, -----	4697
3.62	3.50	21.67	27.00	48 00	Cottonseed meal and cottonseed hulls.	As certified, -----	3940
3.50	-----	21.98	-----	49 00	-----	-----	-----
5.86	6-8	13.16	12-15	3 50	Made from decorticated cottonseed.	Cottonseed meal and cottonseed hulls.	4142
6.37	6.00	10.88	14.00	2 75	Cottonseed meal and cottonseed hulls.	As certified, -----	4035
6.03	6.00	13.20	14.00	61 00	Cottonseed meal and cottonseed hulls.	As certified, -----	4603
6.05	6.00	11.47	14.00	3 20	Cottonseed meal and cottonseed hulls.	As certified, -----	4500
7.50	6.00	10.48	14.00	3 10	Cottonseed meal and cottonseed hulls.	As certified, -----	4111
6.49	-----	11.50	-----	60 50	-----	-----	-----
3.60	3.00	23.86	27.00	2 50	Cottonseed meal and cottonseed hulls.	As certified, -----	4490
5.54	5-6	12.03	16.00	4 25	-----	Cottonseed meal and cottonseed hulls.	4363
6.41	5-6	11.38	16.00	3 10	-----	Cottonseed meal and cottonseed hulls.	3621
6.66	5-6	10.14	16.00	4 00	-----	Cottonseed meal and cottonseed hulls.	4361
5.73	5-6	12.02	16.00	2 90	-----	Cottonseed meal and cottonseed hulls.	4316
6.09	-----	11.39	-----	3 56	-----	-----	-----
6.00	5-7	13.00	12-15	3 25	Made from cottonseed,--	Cottonseed meal and cottonseed hulls.	3904
6.94	4.50	11.37	30.00	2 75	-----	Cottonseed meal and cottonseed hulls.	3873
5.81	5.00	11.24	15.00	3 40	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	3772
7.67	5.00	11.85	15.00	60 00	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	4330

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
4214	Danish Brand, -----	Coudersport, Eulalia Mills,	Per cent. 7.65	Per cent. 37.69	Per cent. 36.00
3635	Danish Brand, -----	Huntingdon, L. S. Goodman & Sons.	8.51	35.44	36.00
4024	Danish Brand, -----	Townville, C. F. Hopkins,	8.62	37.06	36.00
4372	Danish Brand, -----	St. Marys, Jacob & Keller Co.	9.42	35.13	36.00
4303	Danish Brand, -----	Allentown, The George B. Shelly Estate.	8.04	41.88	36.00
		Average, -----	8.31	37.89	-----
	IMPERIAL COTTO SALES CO., CHICAGO, ILL.				
3872	Imperial Cotton Brand,* -----	Ellwood City, W. W. Davidson.	7.99	38.75	36-38
	L. B. LOVITT & CO., MEMPHIS, TENN.				
4641	Thirty Six Brand, -----	York, Anderson Bros. Co.,	8.66	38.44	36.00
4262	Thirty Six Brand, -----	Towanda, Dayton Milling Co.	8.35	37.13	36.00
3963	Thirty Six Brand, -----	Punxsutawney, Jefferson Flour & Feed Co.	8.51	36.88	36.00
	MEMPHIS COTTON HULL & FIBRE CO., MEMPHIS, TENN.	Average, -----	8.50	37.48	-----
4438	Cyclone, -----	Hamburg, Hamburg Roller Mills.	9.43	20.63	20.00
4336	Cyclone, -----	Oxford, H. M. Long, -----	9.27	22.50	20.00
	C. L. MONTGOMERY & CO., MEMPHIS, TENN.	Average, -----	9.35	21.57	-----
4533	Star Brand, -----	Center Hall, Bradford & Son,	8.09	36.75	36.00
4485	Star Brand, -----	Tunkhannock, Brown & Fassett.	9.03	38.81	36-41
4685	Star Brand, -----	Ebensburg, A. Skelly, -----	8.54	38.75	36-41
	THE PARK & POLLARD CO. OF ILLINOIS, CHICAGO, ILL.	Average, -----	8.55	38.10	-----
4042	Cotton Seed Feed, -----	Mill Hall, Continental Condensed Milk Co.	7.83	41.38	36.00
	S. F. SCATTERGOOD & CO., PHILADELPHIA, PA.				
4344	Mogul Brand, -----	Toughkenamon, H. A. Mendenhall.	9.73	22.56	20.00
	TENNESSEE FIBRE CO., MEMPHIS, TENN.				
4054	Creamo Brand, -----	Carnegie, Carnegie Feed & Supply Co.	9.08	22.31	20.00
4185	Creamo Brand, -----	Elkland, Elkland Roller Mills.	9.31	21.44	20.00
4453	Creamo Brand, -----	Erie, Nickel Plate Flour Mills.	8.80	18.50	20.00
		Average, -----	9.06	20.75	-----

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or ewt.	Certified Composition.	Identified by Microscopic Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et. 5.95	Per ct. 5.00	Per et. 11.65	Per et. 15.00	\$ 3 00	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	4214
7.96	5.00	12.73	15.00	3 25	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	3635
5.82	5.00	11.69	15.00	3 00	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	4024
6.73	5.00	11.37	15.00	3 25	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	4372
6.53	5.00	8.82	15.00	3 00	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	4303
6.64	-----	11.33	-----	62 57			
7.68	5-7	9.63	10-14	2 75	-----	Cottonseed meal and cottonseed hulls.	3872
6.00	5.50	11.45	14.00	66 00	Cottonseed meal and cottonseed hulls.	As certified, -----	4641
6.22	5.50	11.02	14.00	3 10	-----	Cottonseed meal and cottonseed hulls.	4262
6.62	5.50	9.45	14.00	3 50	-----	Cottonseed meal and cottonseed hulls.	3963
6.28	-----	10.64	-----	66 00			
4.53	3.00	21.32	26.90	3 00	Cottonseed meal and ground cottonseed hulls.	As certified, -----	4428
4.60	3.00	21.05	26.00	50 00	Cottonseed meal and ground cottonseed hulls.	As certified, -----	4336
4.57	-----	21.18	-----	55 00			
8.30	6.00	11.20	14.00	3 10	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	4533
6.44	6-8	10.56	10-14	3 30	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	4485
5.90	6-8	11.37	10-14	3 50	Made from pressed cottonseed.	Cottonseed meal and cottonseed hulls.	4685
6.88	-----	11.04	-----	3 30			
8.79	5.00	9.52	15.00	2 90	Made from cottonseed products.	Cottonseed meal and cottonseed hulls.	4042
3.58	3.00	23.50	28.00	46 00	Cottonseed meal and cottonseed hulls.	As certified, -----	4344
4.01	4.00	19.25	25.00	50 00	Choice cottonseed meal and cottonseed hull bran.	Cottonseed meal and cottonseed hulls.	4054
3.66	4.00	22.50	25.00	3 00	Choice cottonseed meal and cottonseed hull bran.	Cottonseed meal and cottonseed hulls.	4185
3.58	5.00	23.50	22.00	48 00	Choice cottonseed meal and cottonseed hull bran.	Cottonseed meal and cottonseed hulls.	4453
3.75	-----	21.75	-----	52 67			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4387	UNION SEED & FERTILIZER CO., NEW YORK, N. Y. Columbia, -----	Downingtown, H. C. Clarkson.	Per ct.	Per ct.	Per ct.
			9.92	26.88	20.56
4528	Columbia, -----	Montrose, Harrington & Wilson.	10.03	23.44	20.56
3979	Columbia, -----	Lewistown, Lewistown Ice & Storage Co.	9.47	20.13	20.56
		Average, -----	9.80	23.48	-----
4484	Surety Brand, -----	Tunkhannock, Brown & Fassett.	9.00	37.69	36.00
4324	Surety Brand, -----	Canonsburg, W. H. Dunlap, Jr.	9.00	37.38	36.00
4411	Surety Brand, -----	Oil City, Enterprise Milling Co.	9.21	36.56	36.00
4447	Surety Brand, -----	Erie, Erie Milling & Supply Co.	7.85	36.63	36.00
3866	Surety Brand, -----	Beaver, A. F. Grine, -----	8.78	36.25	36.00
4392	Surety Brand, -----	Coatesville, Handwork Brothers.	8.77	37.31	36.00
4249	Surety Brand, -----	Chambersburg, Lakeview Milling Co.	8.25	38.44	36.00
4421	Surety Brand, -----	Tionesta, Lanson Brothers.	9.16	39.06	36.00
3978	Surety Brand, -----	Lewistown, Lewistown, Ice & Storage Co.	8.01	34.88	36.00
4077	Surety Brand, -----	Greenville, Mathers Brothers.	8.24	40.25	36.00
4220	Surety Brand, -----	Canton, Preston Brothers,	9.56	37.50	36.00
4073	Surety Brand, -----	Sharon, Sharon Flour & Feed Milling Co.	8.59	40.00	36.00
4041	Surety Brand, -----	Lock Haven, E. E. Wentz,	7.26	36.06	36.00
4103	Surety Brand, -----	East Stroudsburg, J. M. Wyckoff.	8.51	39.18	36.00
	LINSEED OIL MEAL, O. P.	Average, -----	8.58	37.65	-----
	AMERICAN LINSEED CO., NEW YORK, N. Y.	Total average, -----	8.60	34.72	-----
4482	Old Process Oil Meal, -----	Tunkhannock, Brown & Fassett.	8.05	39.25	34.00
3914	Old Process Oil Meal, -----	Quakertown, S. S. Detweiler.	10.04	38.06	34.00
3975	Old Process Oil Meal, -----	Mifflin, W. H. Manbeck & Co.	10.58	38.94	34.00
3982	Old Process Oil Meal, -----	Hatfield, Estate of Geo. S. Snyder.	8.75	36.50	32-36
4295	Old Process Oil Meal, -----	Allentown, A. T. Stover Estate.	11.00	35.31	34.00
3668	Old Process Oil Meal, -----	Lebanon, A. M. Weltmer's Sons.	9.89	36.63	34.00
		Average, -----	9.71	37.45	-----
	AMERICAN MILLING CO., PEORIA, ILL.				
3778	Amco Old Process Linseed Meal, -----	Irwin, H. Altman & Son,	10.43	32.44	30.00
4683	Amco Old Process Linseed Meal, -----	Ebensburg, A. Skelly, -----	10.38	38.31	30.00
		Average, -----	10.40	35.38	-----

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.	Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.				
Per ct. 4.73	Per ct. 3.00	Per et. 16.50	Per et. 25.00	2 50	Cottonseed meal and cottonseed hulls.	As certified, ----- 4387
5.03	3.00	18.80	25.00	2 15	Cottonseed meal and cottonseed hulls.	As certified, ----- 4528
2.68	3.00	22.20	25.00	2 20	Cottonseed meal and cottonseed hulls.	As certified, ----- 3979
4.48	-----	19.16	-----	2 28		
7.65	5.50	10.02	14.00	3 30	Cottonseed meal and cottonseed hulls.	As certified, ----- 4484
7.08	5.50	11.65	14.00	60 00	Cottonseed meal and cottonseed hulls.	As certified, ----- 4324
6.61	5.50	10.32	14.00	2 90	Cottonseed meal and cottonseed hulls.	As certified, ----- 4411
6.90	5.50	11.82	14.00	3 20	Cottonseed meal and cottonseed hulls.	As certified, ----- 4447
6.72	5.50	11.31	14.00	3 00	-----	Cottonseed meal and cottonseed hulls. 3866
6.64	5.50	10.96	14.00	3 15	-----	Cottonseed meal and cottonseed hulls. 4392
6.65	5.50	11.09	14.00	3 00	Cottonseed meal and cottonseed hulls.	As certified, ----- 4249
6.34	5.50	12.47	14.00	3 35	-----	Cottonseed meal and cottonseed hulls. 4421
6.13	5.50	13.01	14.00	3 00	Cottonseed meal and cottonseed hulls.	As certified, ----- 3978
7.02	5.50	10.93	14.00	2 90	-----	Cottonseed meal and cottonseed hulls. 4077
6.56	5.50	10.62	14.00	2 90	Cottonseed meal and cottonseed hulls.	As certified, ----- 4220
7.68	5.50	10.00	14.00	2 85	Cottonseed meal and cottonseed hulls.	As certified, ----- 4073
6.24	5.50	11.83	14.00	3 25	Cottonseed meal and cottonseed hulls.	As certified, ----- 4041
6.49	5.50	9.96	14.00	3 20	-----	Cottonseed meal and cottonseed hulls. 4103
6.77	-----	11.14	-----	61 43		
6.24	-----	13.01	-----	60.34		
6.06	5.00	6.35	8.00	2 40	-----	Linseed oil meal, ----- 4482
6.43	5.00	6.65	8.00	3 00	-----	Linseed oil meal, ----- 3914
5.64	3.00	6.65	8.00	3 25	-----	Linseed oil meal, ----- 3975
7.45	5-7	6.67	9-11	2 80	-----	Linseed oil meal, ----- 3982
6.20	5.00	7.85	8.00	3 50	-----	Linseed oil meal, ----- 4295
5.99	5.00	7.47	8.00	3 25	-----	Linseed oil meal, ----- 3668
6.30	-----	6.94	-----	3 03		
6.39	5.00	8.43	10.00	3 50	Flaxseed products, -----	As certified, ----- 3778
5.93	5.00	7.30	10.00	3 75	Old process linseed meal and old process screenings oil feed.	As certified, ----- 4683
6.16	-----	7.86	-----	3 63		

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4255	ARCHER-DANIELS LINSEED CO., BUFFALO, N. Y. Old Process Ground Oil Cake, -----	Towanda, Dayton Milling Co.	Per ct. 7.95	Per ct. 36.44	Per ct. 33.00
3757	Old Process Ground Oil Cake, -----	Doylestown, The Doylestown Poultry & Supply Co.	10.46	38.13	33.00
4287	Old Process Ground Oil Cake, -----	Bradford, L. A. Fischer & Co.	9.56	36.00	33.00
4665	Old Process Ground Oil Cake, -----	Elizabethtown, Muth Brothers.	10.40	35.50	33.00
3986	Old Process Ground Oil Cake, -----	Wycombe, Albert J. Thompson.	6.98	35.25	33.00
4598	Old Process Ground Oil Cake, -----	Waynesburg, Waynesburg Milling Co. Average, -----	9.42	40.13	33.00
4098	M. F. BARINGER, PHILADELPHIA, PA. M. E. B. Old Process Oil Meal, -----	East Stroudsburg, J. M. Wyckoff.	9.53	34.88	33.00
4517	THE GLOBE ELEVATOR CO., BUFFALO, N. Y. Old Process Oil Meal,* -----	Brookville, Kline's Sifter Mills.	9.85	38.88	34.00
3936	A. C. GODSHALL & CO., INC., LANSDALE, PA. Cake Meal,* -----	Colmar, W. H. D. Godshall.	9.08	36.25	-----
4531	SPENCER KELLOGG & SONS, INC., BUFFALO, N. Y. Pure Old Process Oil Meal, -----	Center Hall, Bradford & Son.	10.58	39.31	33.00
4252	Pure Old Process Oil Meal, -----	Canton, Canton Mercantile Co.	9.16	34.25	33.00
4326	Pure Old Process Oil Meal, -----	Canonsburg, Wm. H. Dunlap, Jr.	10.32	39.69	33.00
4157	Pure Old Process Oil Meal, -----	Emporium, Emporium Milling Co.	10.11	36.81	33.00
4169	Pure Old Process Oil Meal, -----	Wellsboro, Equity Co-Operative Exchange.	9.36	35.81	33.00
4602	Pure Old Process Oil Meal, -----	Honesdale, Honesdale Milling Co.	10.86	40.06	33.00
3863	Pure Old Process Oil Meal, -----	West Bridgewater, W. W. McCullough.	9.95	38.13	33.00
4658	Pure Old Process Oil Meal, -----	Frankstown, J. H. Rodkey. Average, -----	10.39	34.38	33.00
3998	J. S. KULP & COMPANY, TELFORD, PA. Old Process Oil Meal, -----	Telford, J. S. Kulp & Company.	9.93	35.38	-----
4182	THE MANN BROTHERS CO., BUFFALO, N. Y. Pure Old Process Linseed Oil Meal,-----	Wellsboro, Geo. C. Brooks,	9.66	34.94	31.00
3735	Pure Old Process Linseed Oil Meal,-----	Easton, The Easton Flour & Feed Co.	9.72	36.00	31.00
4186	Pure Old Process Linseed Oil Meal,-----	Elkland, Elkland Roller Mills.	9.07	37.81	31.00
4223	Pure Old Process Linseed Oil Meal,-----	Canton, Preston Brothers, Average, -----	9.47	34.75	31.00
4420	THE METZGER SEED & OIL CO., TOLEDO, OHIO. Old Process Oil Meal, -----	Coatesville, Handwork Brothers.	9.48	35.88	-----
4393	Old Process Oil Meal, -----	Tionesta, Lanson Brothers,	9.81	37.13	32.00
	Average, -----	Average, -----	10.08	39.81	30.00
			9.94	38.47	-----

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
7.43	6.00	5.96	10.00	2 80		Linseed oil meal, -----	4255
5.84	6.00	6.89	10.00	3 20		Linseed oil meal, -----	3757
6.93	6.00	6.42	10.00	3 10		Linseed oil meal, -----	4287
8.43	6.00	7.22	10.00	3 20		Linseed oil meal, -----	4665
7.07	6.00	6.98	10.00	3 20		Linseed oil meal, -----	3986
6.08	6.00	5.55	10.00	3 50		Linseed oil meal, -----	4598
6.96	-----	6.48	-----	3.17			
6.44	5.00	7.54	8.00	3 30		Linseed oil meal, -----	4098
6.75	5.00	6.33	8.00	3 25		Linseed oil meal, -----	4517
7.71	-----	7.91	-----	2 90		Linseed oil meal, -----	3936
6.25	5.00	7.05	10.00	3 10		Linseed oil meal, -----	4531
7.36	5.00	6.70	10.00	2 65		Linseed oil meal, -----	4232
5.93	5.00	6.65	10.00	63 00		Linseed oil meal, -----	4326
6.44	5.00	9.30	10.00	3 25		Linseed oil meal, -----	4157
6.90	5.00	8.41	10.00	3 25		Linseed oil meal, -----	4169
5.80	5.00	6.52	10.00	64 00		Linseed oil meal, -----	4602
7.15	5.00	6.25	10.00	3 25		Linseed oil meal, -----	3863
6.50	5.00	6.72	10.00	3 25		Linseed oil meal, -----	4658
6.54	-----	7.20	-----	62 75			
6.47	-----	7.37	-----	2 85	Made from oil cake, -----	As certified, -----	3998
6.77	6.00	6.48	10.00	3 25		Linseed oil meal, -----	4182
6.39	6.00	7.27	10.00	3 45		Linseed oil meal, -----	3735
7.32	6.00	6.60	10.00	3 30		Linseed oil meal, -----	4186
7.57	6.00	6.66	10.00	2 65		Linseed oil meal, -----	4223
7.01	-----	6.75	-----	3 09			
7.13	5.00	6.70	10.00	3 00		Linseed oil meal, -----	4393
6.30	5.00	7.10	10.00	3 25		Linseed oil meal, -----	4420
6.72	-----	6.90	-----	8 18			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture	Found.	Guaranteed.
4480	MIDLAND LINSEED PRODUCTS CO., MINNEAPOLIS, MINN. Argentine Brand Old Process Ground Linseed Cake.	Tunkhannock, Brown & Fassett.	Per et. 9.32	Per et. 38.19	Per et. 30.00
4063	Old Process Ground Linseed Cake, --	Woodville, Jos. Campbell Estate.	8.90	35.69	30.00
3698	Old Process Ground Linseed Cake, --	Scottdale, J. E. Pritts, ---	9.49	36.69	32.00
3620	Old Process Ground Linseed Cake, --	Johnstown, Swope Brothers Average, -----	8.55 8.98	39.25 37.21	32.00
3874	THE SHERWIN-WILLIAMS CO., CLEVELAND, OHIO. S. W. C. Linseed Oil Meal, -----	Ellwood City, W. W. Davidson & Son.	9.44	39.69	33-36
4068	S. W. C. Linseed Oil Meal, -----	Farrell, J. B. Roux, ----- Average, -----	9.30 9.37	41.75 40.72	33-36
	COCOANUT OIL MEAL.	Total average, -----	9.62	37.17	-----
	SPENCER KELLOGG & SONS, INC., BUFFALO, N. Y.				
4640	Pure Old Process Cocoanut Meal, --	York, Anderson Bros. & Co.	5.05	24.63	20.00
3964	Pure Old Process Cocoanut Meal, --	Punxsutawney, Jefferson Flour & Feed Co. Average, -----	6.23 5.64	22.25 23.44	20.00
4280	THE PROCTER & GAMBLE MANUFACTURING CO., CINCINNATI, OHIO. P. & G. Copra Oil Meal, -----	Smethport, Herzog Milling Co.	10.93	21.56	20.00
4467	P. & G. Copra Oil Meal, -----	Linesville, Linesville Coal, Lime & Cement Co.	9.25	22.38	20.00
4546	P. & G. Copra Oil Meal, -----	Corry, Miller & Parsons, Average, -----	9.26 9.81	22.50 22.15	20.00
	DISTILLERY & BREWERY BY-PRODUCTS.	Total average, -----	8.14	22.66	-----
	DISTILLERS' DRIED GRAINS. (Largely from Corn.)				
4397	AMERICAN MILLING COMPANY, PEORIA, ILL. Empire State Dairy Feed, -----	Coatesville, Handwork Brothers.	8.29	33.44	30.00
4097	CONTINENTAL CEREAL CO., PEORIA, ILL. Continental Gluten Feed,* -----	East Stroudsburg, J. M. Wyckoff.	6.50	35.06	29-31
4263	GRAIN PRODUCTS SALES CO., BUFFALO, N. Y. Columbia, -----	Towanda, F. H. Hagerman.	9.07	30.13	30.00
4236	THE HOTTELET COMPANY, MILWAUKEE, WIS. Hector, -----	Chambersburg, Diehl, Omwake & Diehl.	6.67	34.19	30.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
7.39	5.00	6.17	9.50	3 30	-----	Linseed oil meal, -----	4480
8.36	5.00	6.20	9.50	3 50	-----	Linseed oil meal, -----	4063
8.05	5.00	6.97	9.50	3 15	-----	Linseed oil meal, -----	3698
8.05	5.00	6.83	9.50	3 25	-----	Linseed oil meal, -----	3620
8.15	-----	6.66	-----	3 30			
6.41	6-7	7.02	11.00	3 40	-----	Linseed oil meal, -----	3874
5.80	6-7	6.70	8.00	2 75	-----	Linseed oil meal, -----	4068
6.11	-----	6.85	-----	3 08			
6.77	-----	6.94	-----	63 05			
8.50	6.00	6.32	11.00	52 00	Made from copra cake,	Cocoanut oil meal, -----	4640
9.05	5.00	7.05	11.00	2 90	Made from copra cake,	Cocoanut oil meal, -----	3964
8.78	-----	6.69	-----	55 00			
7.83	6.00	8.35	12.00	3 10	Made from dried cocoanut meats.	Cocoanut oil meal, -----	4280
6.03	6.00	6.47	12.00	51 00	Made from dried cocoanut meats.	Cocoanut oil meal, -----	4467
7.31	6.00	6.87	12.00	2 70	Made from dried cocoanut meats.	Cocoanut oil meal, -----	4546
7.06	-----	7.23	-----	55.67			
7.74	-----	7.01	-----	55.40			
10.28	10.00	12.05	14.00	3 00	Corn distillers' dried grains.	As certified, -----	4397
10.45	10-15	11.34	7-10	3 70	A distillery by-product manufactured from corn, oats, rye and barley.	As certified, -----	4097
9.64	10.00	7.63	14.00	3 60	-----	Distillers' dried grains largely from corn.	4263
10.70	10.00	9.52	14.00	-----	-----	Distillers' dried grains largely from corn.	4236

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3899	WILLIAM H. STELLMANN, BALTIMORE, MD. Distillers Dried Corn Grains, -----	Mechanicsburg, A. B. Harnish.	Per et. 7.39	Per et. 30.38	Per et. 30.00
	DISTILLERS' YEAST AND VINEGAR DRIED GRAINS.	Average, -----	7.58	32.64	-----
4629	THE CLEVELAND GRAINS DRYING CO., CLEVELAND, OHIO. Atlantic Grains,* -----	Goldsboro, The Goldsboro Pure Feed Co.	5.48	21.50	19.00
4346	THE CORBY COMPANY, WASHINGTON, D. C. Corby Dried Grains, -----	Toughkenamon, H. A. Mendenhall.	8.24	18.81	16.00
3747	THE FLEISCHMANN CO., CHICAGO, ILL. Fleischmann's Dried Grains, -----	Doylestown, Henry S. Beidler.	8.69	18.75	19.00
4586	Fleischmann's Dried Grains, -----	Wilkes-Barre, C. P. Matthews & Sons, Inc.	7.63	16.44	16.00
3988	Fleischmann's Dried Grains, -----	Wyecombe, Albert J. Thompson.	6.72	18.13	19.00
		Average, -----	7.68	17.77	-----
4355	THE FLEISCHMANN CO., CINCINNATI, OHIO. Fleischmann's Dried Malt Grains, -----	Brandywine Summit, R. C. Fairlamb & Sons.	7.75	23.00	22.00
3659	THE FLEISCHMANN CO., PEEKSKILL, N. Y. Fleischmann's Dried Grains, -----	Sunbury, Blank & Gottshall.	6.80	21.44	20.00
3997	Fleischmann's Dried Grains, -----	Telford, J. S. Kulp & Co.,	6.96	20.13	20.00
		Average, -----	6.88	20.79	-----
		Total average, -----	7.28	19.78	-----
	BREWERS' DRIED GRAINS.				
4630	ATLANTIC EXPORT CO., NEW YORK, N. Y. Dried Brewers Grains, -----	Goldsboro, The Goldsboro Pure Feed Co.	6.63	29.06	25.00
4338	Dried Brewers Grains, -----	Oxford, Oxford Grain & Hay Co.	8.93	25.31	25.00
		Average, -----	7.78	27.19	-----
3665	JONAS F. EBY & SON, LANCASTER, PA. "Stockade" Fancy Dried Brewers Grains.	Myerstown, E. L. Bleistein.	6.71	31.81	29.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopic Examination.	Chemist's number.
Guaranteed. Per ct.	Guaranteed. Per ct.	Found. Per ct.	Guaranteed. Per ct.			
Per ct. 9.89	Per ct. 10.00	Per ct. 10.82	Per ct. 13.00	\$ 3.65		Distillers' dried grains largely from corn. 3899
10.21		10.27		3.49		
8.10	6.00	16.90	18.00	56.00	Yeast and vinegar grains made from corn, rye, barley and malt sprouts.	As certified, ----- 4629
5.48	5.00	17.32	22.00	55.00	From the manufacture of compressed yeast, barley malt, rye malt, malt sprouts and corn.	As certified, ----- 4346
6.14	7.00	18.81	19.00	52.00	Dried yeast grains from corn, barley malt and sprouts.	As certified, ----- 3747
8.45	7.06	19.57	21.00	2.90	Dried yeast grains from corn, barley malt, oat malt and sprouts.	As certified, ----- 4586
6.16	7.00	19.26	19.00	2.88	Dried yeast grains from corn, barley malt and sprouts.	As certified, ----- 3988
6.92		19.21		55.87		
8.98	7.00	13.97	17.00	65.00	Dried grains from barley malt and corn.	Distillers' dried grains from barley malt, oats and corn. 4355
6.39	7.00	15.99	19.00	2.75	Dried distillers' and yeast grains from corn, rye, barley malt and sprouts.	As certified, ----- 3659
6.56	7.00	16.25	19.00	3.00	Dried distillers' and yeast grains from corn, rye, barley malt and sprouts.	As certified, ----- 3997
6.48		16.12		2.88		
7.03		17.25		57.33		
6.25	6.00	14.82	14.00	64.00		Brewers' dried grains, 4630
8.40	6.00	13.40	14.00	60.00		Brewers' dried grains, 4238
7.33		14.11		62.00		
6.63	6.50	13.85	13.00	2.80		Brewers' dried grains, 3665

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4271	FARMERS FEED CO., NEW YORK, N. Y. Bull Brand Dried Brewers' Grains,-----	Ulster, H. O. Ayer, -----	Per et. 8.02	Per et. 27.13	Per et. 27.2-30
3658	Bull Brand Dried Brewers' Grains, -----	Sunbury, Blank & Gottshall.	7.41	27.88	27.2-30
4315	Bull Brand Dried Brewers' Grains,-----	Washington, Washington Grain & Feed Co.	8.32	30.00	27.2-30
		Average, -----	7.91	28.34	-----
4679	JOHNSTOWN DRY GRAINS CO., JOHNSTOWN, PA. Dried Brewers' Grains, -----	Johnstown, G. Bostert & Sons.	5.73	26.13	24.00
3621	Dried Brewers' Grains, -----	Johnstown, Johnstown Milling Co.	7.41	27.69	24.00
		Average, -----	6.57	26.91	-----
4345	WALTER F. MACNEAL & CO., BALTIMORE, MD. Pured Dried Brewers' Grains, -----	Toughkenamon, H. A. Mendenhall.	8.08	26.56	25.00
4100	MAYER BREWING CO., NEW YORK, N. Y. Dried Brewers' Grains,* -----	East Stroudsburg, J. M. Wykoff.	5.47	29.13	27.5-30
3644	MILWAUKEE GRAINS & FEED CO., MILWAUKEE, WIS. Crown Brewers Dried Grains,* -----	Millersburg, Millersburg Milling Co.	8.86	28.63	26.00
3946	PENN GRAINS & FEED CO., PHILADELPHIA, PA. Peerless Brand Brewers Dried Grains,	West Point, Heebner & Kreibel.	6.51	26.19	26.00
3943	ROSEKRANS-SNYDER CO., PHILA- DELPHIA, PA. Brewers' Dried Grains, -----	West Point, Heebner & Kreibel.	6.27	36.19	23-25
4575	STEGMAIER BREWING CO., WILKES-BARRE, PA. Dried Brewers' Grains, -----	Wilkes-Barre, Robbins Mill- ing Co.	7.84	20.38	25.10
4360	H. STELLMANN, BALTIMORE, MD. F. B. Brewers' Dried Grains, -----	Kennett Square, C. G. Gawthrop Co.	7.97	27.19	26.00
3786	WESTERN GRAINS & FEED CO., CHICAGO, ILL. Brewers' Dried Grains, -----	Butler, Thompson & Glenn,  Total average, -----	8.46	24.56	25.00
			7.39	27.74	-----
	MAIZE BY-PRODUCTS.				
	CORN GLUTEN FEED.				
3913	AMERICAN MAIZE PRODUCTS CO., NEW YORK, N. Y. Cream of Corn, -----	Quakertown, S. S. Det- weiler.	10.94	21.94	23.00
4466	Cream of Corn, -----	Wesleyville, W. D. Ripley,	12.58	20.75	23.00
3987	Cream of Corn, -----	Wyeonibe, Albert J. Thomp- son.	11.08	21.25	-----
4554	Cream of Corn, -----	Warren, Warren City Mills,  Average, -----	9.09	27.94	23.00
			10.92	22.97	-----

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopic Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et.	Per et.	Per et.	Per et.	\$			
6.60	6.3-8	13.15	12.85- 15.2	3 00		Brewers' dried grains,	4271
6.85	6.3-8	15.42	12.85- 15.2	2 75		Brewers' dried grains,	3658
6.95	6.3-8	12.25	12.85- 15.2	2 90		Brewers' dried grains,	4315
6.80		13.60		2 88			
7.35	6.71	14.80	15.00	55 00		Brewers' dried grains,	4679
8.68	6.71	13.70	15.00	2 50		Brewers' dried grains,	3624
8.02		14.25		52 50			
6.44	6.00	13.00	15.90	63 00		Brewers' dried grains,	4345
7.17	6.3-8	17.22	12.85- 15.2	3 30		Brewers' dried Grains,	4100
5.20	6.00	12.59	15.00	2 80		Brewers' dried grains,--	3644
6.02	6.00	13.45	12.00	60 00		Brewers' dried grains,--	3946
7.37	5-6	9.92	16-18	62 00		Brewers' dried grains,--	3943
7.28	6.42	15.90	14.91	3 25		Brewers' dried grains,--	4575
5.98	6.00	14.32	13.00	60 00		Brewers' dried grains,--	4360
6.26	5.00	12.94	16.00	3 00		Brewers' dried grains,--	3786
6.84		13.70		59 38			
2.46	1.50	5.58	8.50	2 85	Corn gluten feed,-----	As certified, -----	3913
2.38	1.50	6.32	8.50	2 70		Corn gluten feed, -----	4466
2.90		7.10		3 00		Corn gluten feed, -----	3987
3.13	1.50	6.55	8.50	2 85		Corn gluten feed, -----	4554
2.72		6.38		2 85			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4272	CORN PRODUCTS REFINING CO., NEW YORK, N. Y.	Ulster, H. O. Ayer, -----	Per cent.	Per cent.	Per cent.
4227	Buffalo, -----	Canton, Canton Mercantile Co.	9.38	26.63	23.00
4046	Buffalo, -----	Mill Hall, Continental Condensed Milk Co.	9.29	25.25	23.00
4256	Buffalo, -----	Towanda, Dayton Milling Co.	9.98	27.38	23.00
4319	Buffalo, -----	Canonsburg, Wm. H. Dunlap, Jr.	10.14	27.19	23.00
4445	Buffalo, -----	Erie, Erie Milling & Supply Co.	8.50	26.94	23.00
4422	Buffalo, -----	Tionesta, Lanson Brothers, .	10.70	27.56	23.00
4081	Buffalo, -----	Greenville, Mathers Brothers.	9.36	24.56	23.00
3920	Buffalo, -----	Quakertown, Allen K. Smith,	9.08	24.44	23.00
3972	Buffalo, -----	Lewistown, Spanogle- Yeager Milling Co.	8.87	28.13	23.00
4567	Buffalo, -----	Indiana, St. Clair, Rion & Co.	9.40	27.06	23.00
	J. C. HUBINGER BROS. CO., KEO-KUK, IOWA.	Average, -----	9.51	26.53	-----
4279	KKK, -----	Bradford, Smith Brothers,	9.52	23.94	23.00
3748	THE HURON MILLING CO., HARBOR BEACH, MICH.	Doylestown, Henry S. Beidler.	9.74	24.88	22-25
5954	Jenk's, -----	Hatfield, Estate of George S. Snyder.	9.12	26.19	22-25
	FINE KEEVER STARCH CO., COLUMBUS, OHIO.	Average, -----	9.43	25.54	-----
4080	Keever, -----	Greenville, Mathers Brothers.	7.42	18.56	20.00
3890	Keever, -----	Clearfield, J. T. Murphy,	7.19	22.38	20.00
	A. E. STALEY, MFG. CO., DECATUR, ILL.	Average, -----	7.30	20.47	-----
4478	Staley's, -----	Tunkhannock, Brown & Fassett.	9.17	24.19	20.00
4261	Staley's, -----	Towanda, Dayton Milling Co.	10.03	25.94	20.00
3752	Staley's, -----	Doylestown, The Doylestown, Poultry & Supply Co.	9.18	26.03	23-25
4358	Staley's, -----	Kennett Square, C. G. Gawthrop Co.	9.85	25.25	23-25
3950	Staley's, -----	West Point, L. W. Mattern.	9.80	22.69	23-25
4015	Staley's, -----	DuBois, A. T. Sprinkle, .	9.78	23.81	20.00
	HOMINY FEED.	Average, -----	9.63	24.66	-----
	AMERICAN HOMINY CO., INDIANAPOLIS, IND.	Total average, -----	9.58	24.91	-----
4115	Homeo, -----	Stroudsburg, Frank LeBar,	9.91	13.13	10.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
2.53	1.00	7.52	8.50	2 70	Corn gluten feed, -----	As certified, -----	4272
4.24	1.00	6.52	8.50	2 40	Corn gluten feed, -----	As certified, -----	4227
3.33	1.00	8.36	8.50	2 90	Corn gluten feed, -----	As certified, -----	4046
3.41	1.00	6.65	8.50	2 50	Corn gluten feed, -----	As certified, -----	4256
2.73	1.00	7.22	8.50	58 00	Corn gluten feed, -----	As certified, -----	4319
2.95	1.00	6.91	8.50	54 00	Corn gluten feed, -----	As certified, -----	4445
2.11	1.00	7.63	8.50	3 40	Corn gluten feed, -----	As certified, -----	4422
4.95	1.00	7.55	8.50	3 10	Corn gluten feed, -----	As certified, -----	4081
2.58	1.00	7.41	8.50	2 90	Corn gluten feed, -----	As certified, -----	3920
1.13	1.00	7.18	8.50	3 20	Corn gluten feed, -----	As certified, -----	3972
4.10	1.00	6.47	8.50	3 25	Corn gluten feed, -----	As certified, -----	4567
3.10	-----	7.22	-----	58 09			
3.84	2.40	8.30	7.50	59 00	Corn starch by-product with corn solubles.	As certified, -----	4279
3.44	3.00	7.14	8.00	2 90	Corn starch by-product with corn bran. Not colored.	As certified, -----	3748
3.52	3.00	6.96	8.00	2 85	Corn starch by-product with corn bran. Not colored.	As certified; -----	3954
3.48	-----	7.05	-----	2 88			
4.53	3.00	6.50	8.00	3 10	-----	Corn gluten feed, -----	4080
3.15	3.00	6.21	8.00	3 25	-----	Corn gluten feed, -----	3890
3.84	-----	6.35	-----	3 18			
4.65	2.50	7.87	12.00	2 90	Corn bran, corn gluten and corn solubles.	As certified, -----	4478
4.58	2.50	6.43	12.00	2 50	Corn bran, corn gluten and corn solubles.	As certified, -----	4261
2.46	2.5-3	7.07	9-12	3 35	-----	Corn gluten feed, -----	3752
2.53	2.5-3	6.55	9-12	52 00	-----	Corn gluten feed, -----	4358
3.64	2.5-3	7.10	9-12	2 90	-----	Corn gluten feed, -----	3950
3.19	2.50	7.72	12.00	3 25	Corn bran, corn gluten and corn solubles.	As certified, -----	4015
3.61	-----	7.12	-----	58 33			
3.22	-----	7.03	-----	58 39			
7.35	6.00	4.30	7.00	3 60	Manufactured from white corn only.	As certified, -----	4115

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4078	Homeo, -----	Greenville, Mathers Brothers.	Per ct. 9.31	Per ct. 10.19	Per ct. 10.00
4576	Homeo, -----	Wilkes-Barre, Miner-Hillard Milling Co.	9.76	11.81	9.00
3799	Homeo, -----	Butler, P. J. Oesterling & Son.	10.62	9.63	10.00
		Average, -----	9.90	11.19	-----
	CLARX MILLING CO., MINNEAPOLIS, MINN.				
4628	Clarx High Grade,* -----	Goldsboro, The Goldsboro Pure Feed Co.	10.78	12.81	11.40
	GLOBE ELEVATOR CO., BUFFALO, N. Y.				
3753	Globe,* -----	Doylestown, The Doylestown Poultry & Supply Co.	9.77	10.44	10.00
	CHAS. A. KRAUSE MILLING CO., MILWAUKEE, WIS.				
3823	Badger, -----	Swatara, John B. Curry Est.	10.36	11.19	10.00
3871	Badger, -----	Ellwood City, W. W. Davidson & Son.	9.44	11.94	10.00
4450	Badger, -----	Erie, Erie Milling & Supply Co.	8.65	12.50	10.00
3947	Badger, -----	West Point, Heebner & Kriebel.	8.27	11.81	10.00
4601	Badger, -----	Honesdale, Honesdale Milling Co.	9.81	11.81	10.00
4619	Badger, -----	Charleroi, R. C. Mountser,	11.45	12.50	10.00
3991	Badger, -----	Wycombe, Albert J. Thompson.	8.42	12.50	-----
		Average, -----	9.48	12.04	-----
3945	Yellow, -----	West Point, Heebner & Kriebel.	7.67	11.13	10.00
	PLYMOUTH MILLING CO., LeMARS, IOWA.				
3704	Plymouth's Pure, -----	Scottdale, City Feed Store,	9.62	9.69	10.00
3852	Plymouth's Pure, -----	Beaver Falls, Dodds & Garrett.	11.86	10.38	10.00
		Average, -----	10.74	10.04	-----
	POSTUM CEREAL CO., BATTLE CREEK, MICH.				
4670	Burt's, -----	Lancaster, John W. Eshelman.	8.59	12.88	10.39
	WALTERS MILLING CO., PHILADELPHIA, PA.				
3912	White, -----	Quakertown, S. S. Detwiler.	9.16	10.31	8-18
		Total average, -----	7.63	11.48	-----
	CORN BRAN.				
	THE HEFFNER MILLING CO., CIRCLEVILLE, OHIO.				
8994	Yellow Corn Bran, -----	Telford, A. B. Godshall, ..	8.77	10.50	9-11

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
4.89	6.00	3.32	7.00	3 45	Manufactured from white corn only.	As certified, -----	4078
6.48	5.00	3.75	7.00	3 20	Manufactured from white corn only.	As certified, -----	4576
6.25	6.00	5.77	7.00	3 50	Manufactured from white corn only.	As certified, -----	3799
6.24	-----	4.28	-----	3 44			
4.95	9.10	4.22	8.10	60 00	Made from choicest kiln dried corn.	As certified, -----	4628
7.41	6.50	6.16	10.00	3 50	Made from corn, -----	As certified, -----	3753
7.10	6.00	4.47	5.00	3 25	Made from white corn,--	As certified, -----	3825
7.76	6.00	4.62	5.00	3 25	Made from white corn,--	As certified, -----	3871
7.00	6.00	4.72	5.00	3 30	Made from white corn,--	As certified, -----	4450
8.75	6.00	4.47	5.00	68 00	Made from white corn,--	As certified, -----	3947
6.33	6.00	3.80	5.00	64 00	Made from white corn,--	As certified, -----	4601
6.03	6.00	4.47	5.00	3 40	Made from white corn,--	As certified, -----	4619
8.07	-----	4.47	-----	3 50	-----	Hominy feed, -----	3991
7.29	-----	4.43	-----	66 57	-----		
6.30	6.00	4.00	5.00	68 00	Made from yellow corn,	As certified, -----	3945
5.97	8.50	5.73	6.35	3 75	-----	Hominy feed, -----	3704
8.07	8.50	3.89	6.35	4 25	-----	Hominy feed, mouldy and damaged.	3852
7.02	-----	4.81	-----	4 00	-----		
8.38	6.00	3.47	5.00	65 00	Made from white corn,	As certified, -----	4670
7.44	3-6	3.33	4-8	3 40	-----	Hominy feed, -----	3912
6.92	-----	4.38	-----	68 44	-----		
9.57	5-7	9.70	12-15	2 65	-----	Corn bran, and corn siftings.	3994

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4201	JAMESTOWN ELECTRIC MILLS, JAMESTOWN, N. Y. Corn Bran,* -----	Knoxville, Knoxville Roller Mills.	Per ct. 8.85	Per et. 13.75	Per et. -----
4519	C. A. JAYNE, SKINNERS EDDY, PA. Corn Bran, *-----	Skinner's Eddy, C. A. Jayne.	11.65	11.31	-----
4252	THE SCOTT COUNTY MILLING CO., SIKESTOWN, MO. Corn Bran, -----	Chambersburg, Lakeview Milling Co.	8.82	12.25	7.00
4246	Corn Bran, -----	Chambersburg, J. H. Smith & Sons.	7.83	12.25	7.00
		Average, -----	8.07	12.25	-----
3929	WALTERS MILLING CO., PHILA- DELPHIA, PA. White Corn Bran, -----	Lansdale, A. O. Godshall & Co., Inc.	7.91	8.94	8-12
4332	WOLF MILLING CO., ELLIN- WOOD, KANS. Corn Bran,* -----	New Castle, City Roller Mills.	10.42	9.94	8.50
3754	YATES & DONELSON CO., MEM- PHIS, TENN. Kiln Dried Corn Bran, -----	Doylestown, The Doylestown Poultry & Supply Co.	8.69	11.00	10.00
	CORN FEED MEAL.	Total average, -----	9.05	11.24	-----
4164	LARROWE MILLING CO., DETROIT MICH. Wolverine Corn Feed Meal, -----	Wellsboro, Farmers' Feed Store.	10.20	13.50	10.50
4563	SHEFFIELD-KING MILLING CO., MINNEAPOLIS, MINN. King's Corn Feed Meal, -----	Indiana, St. Clair, Rinn & Co.	9.62	12.25	10.00
4615	WASHBURN-CROSBY CO., BUF- FALO, N. Y. Corn Feed Meal, -----	Charleroi, Western Flour Co.	10.21	13.00	8.00
	WHEAT OFFALS.	Average, -----	10.01	12.92	-----
	WHEAT MIDDLEDINGS.				
3759	GEORGE C. CHRISTIAN, RED- FIELD, S. DAK. Pure Wheat Shorts, -----	Greensburg, McFarland Supply Co.	10.24	18.06	18.00
4545	CHRISTIAN MILLS, MINNEAPO- LIS, MINN. Matchless Pure Wheat Middlings,*---	Irwin, T. F. Wilson, ---	11.55	18.88	15.50
4188	ELKLAND ROLLER MILLS, ELK- AND, PA. Wheat Middlings, -----	Elkland, Elkland Roller Mills.	9.90	18.38	-----

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or ewt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per cent.	Per cent.	Per cent.	Per cent.	\$3.00		Corn bran, -----	4201
10.01		7.65					
4.30		7.70		2.50		Corn bran and corn siftings.	4519
10.83	5.00	5.27	15.00	2.25		Corn bran, -----	4252
11.48	5.00	5.52	15.00	2.25		Corn bran, -----	4246
11.16		5.39		2.25			
6.68	4-7	6.89	6-10	3.20		Corn bran, -----	3929
5.84	5.00	10.67	14.00	45.00		Corn bran and corn siftings.	4832
6.25	6.50	8.36	10.06	3.10	Made from white corn,	As certified, -----	3754
8.12		7.72		53.00			
11.60	4.00	4.79	12.00	3.35		Corn feed meal, -----	4164
6.90	8.00	5.50	8.00	3.50	Composed of corn, -----	Corn feed meal, -----	4563
9.25	5.00	4.82	10.00	3.35		Corn feed meal, -----	4615
9.25		5.63		3.40			
6.13	4.00	7.12	8.00	2.60		Wheat middlings, -----	3759
5.34	4.65	7.07	6.40	2.50	Pure wheat middlings, -----	As certified, -----	4545
5.99		5.20		2.30		Wheat middlings, -----	4188

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3877	GJOBE ELEVATOR CO., BUFFALO, N. Y. Flour Middlings,* -----	Philipsburg, J. O. Reed,	Per et. 10.36	Per et. 15.94	Per et. 12-14
3727	THE GOSHIEN MILLING CO., GOSHEN, IND. Middlings, -----	Wilkinsburg, Johnston & Smith.	11.15	15.88	14.50
3846	HILL'S MILLING CO., SHAMBAUGH, IOWA. Shorts,* -----	New Kensington, A. H. Klugh.	11.01	16.13	16.00
3814	HOFFER & GARMAN, HARRISBURG, PA. Pure Flour Middlings, -----	Harrisburg, Hoffer & Garman.	11.91	19.31	14.90
3812	LONDONDERRY FLOURING MILLS, PALMYRA, PA. Pure Winter Wheat Middlings,* -----	Harrisburg, Paxton Flour Feed Co.	11.52	17.38	15-17
4064	LONDON MILL COMPANY, LONDON, OHIO. Long's Pure Wheat Middlings, -----	Woodville, Jos. Campbell Estate.	11.19	18.38	-----
3861	MANEY MILLING CO., OMAHA, NEBR. Pure Wheat Shorts, -----	West Bridgewater, W. W. McCullough.	12.77	16.50	16.00
3636	MARSHALL MILLING CO., MARSHALL, MINN. White Wheat Middlings, -----	Huntingdon, L. S. Goodman & Sons.	11.80	18.56	17.50
3642	MILLERSBURG MILLING CO., MILLERSBURG, PA. Pure Wheat Middlings,* -----	Millersburg, Millersburg Milling Co.	12.47	17.13	-----
3669	OSAKIS MILLING CO., OSAKIS, MINN. Fancy White Middlings, -----	Lebanon, A. M. Weltmer's Sons.	10.65	17.88	15.00
3870	THE RICHARDS & EVANS CO., CORTLAND, OHIO. Pure Wheat Middlings,* -----	Beaver, A. F. Grine, ---	11.58	15.25	-----
3677	E. STRICKLER'S SONS, LEBANON, PA. Pure White Middlings,* -----	Lebanon, E. Strickler's Sons.	12.96	16.44	14-18
4505	THE WESTERN STAR MILL CO., SALINA, KANS. Brown Shorts, -----	Blairsville, J. A. McKelvey, Average, -----	10.81 11.33	12.38 17.56	16.00 -----
	WHEAT MIDDLING WITH AD MIXTURES.				
3883	BIG DIAMOND MILLS CO., MINNEAPOLIS, MINN. Big Diamond Wheat Flour Middlings, -----	Philipsburg, Centre Milling Co.	9.97	17.88	14.50

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Found. Fat.	Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
	Guaranteed.	Found.				
Per ct. 5.32	Per ct. 3-5	Per ct. 4.80	Per ct. 8-9	\$ 3 25	Wheat middlings, -----	3877
4.41	4.10	4.95	-----	3 25	Wheat middlings, -----	3727
5.00	5.00	5.82	5.00	3 35	Wheat middlings, -----	3846
4.42	3.60	3.59	9.00	3 15	Wheat middlings, -----	3814
3.89	4-5	4.21	-----	2.85	Wheat middlings, -----	3812
5.04	-----	5.50	-----	2 85	Wheat middlings, -----	4064
4.29	5.00	3.21	5.50	3 00	Wheat middlings, -----	3861
6.25	5.50	5.30	6.50	3 50	Wheat middlings, -----	3636
5.03	-----	5.21	-----	2.75	Wheat middlings, -----	3642
6.24	4.00	5.16	11.00	3 00	Wheat middlings, -----	3669
4.75	-----	5.72	-----	2 00	Wheat middlings, -----	3870
4.03	3-6	4.14	-----	52 00	Wheat middlings, -----	3677
5.30	3.50	5.70	8.00	50 00	Wheat middlings, -----	4505
5.30	-----	5.16	-----	57 94	-----	-----
5.41	4.50	5.72	7.76	3 25	Wheat middlings with ground screenings not exceeding mill run.	As certified, -----
						3883

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3844	CENTURY MILLING CO., MINNEAPOLIS, MINN. Berkshire Wheat Flour Middlings, --	Kittanning, J. A. Gault, Co.	Per et. 11.48	Per et. 17.19	Per et. 15.00
4507	Poland Wheat Standard Middlings, --	Clarion, A. C. Snyder & Son.	11.41	18.06	14.00
3711	THE CLEVELAND MILLING CO., CLEVELAND, OHIO. Special Fine Middlings,* -----	Braddock, The Irwin Muir, Co.	11.95	15.06	15.00
3709	Standard Middlings, -----	Braddock, The Irwin Muir Co.	11.36	16.44	13.00
3777	H. C. COLE MILLING CO., CHES-TER, ILL. Wheat Middlings with Ground Screenings not Exceeding Mill Run.	Irwin, H. Altman & Son,--	10.86	17.19	15.00
3770	THE KANSAS FLOUR MILLS CO., KANSAS CITY, MO. Grey Shorts and Screenings, -----	Latrobe, Golde Flour & Feed Store.	11.34	16.88	14.00
3683	KEHLOR FLOUR MILLS CO., ST. LOUIS, MO. Rex Middlings, -----	Uniontown, King Brothers,	11.25	18.31	16.00
3688	THE MANSFIELD MILLING CO., INC., MANSFIELD, OHIO. Wheat Middlings with Ground Screenings not Exceeding Mill Run.	Fairchance, A. M. Freder-ick, Jr.	11.52	16.44	15.00
3632	MAPLE LEAF MILLING CO., LTD., TORONTO, CANADA. Bonny Flour Middlings,* -----	Huntingdon, Huntingdon Milling Co.	11.72	18.38	15.50
3985	THE MENNEL MILLING CO., TO-LEDO, OHIO. Harter's Middlings, -----	Wycombe, Alber t J. Thompson.	10.22	15.94	15.00
3614	NEWSOME FEED & GRAIN CO., PITTSBURGH, PA. Palmo Midds, -----	South Fork, J. E. Cris-man.	5.26	16.00	16.00
4007	Palmo Midds, -----	Somerset, John G. Emert,	8.71	15.31	16.00
4020	Palmo Midds, -----	Townville, C. F. Hopkins,	6.66	15.56	16.00
3763	Palmo Midds, -----	Greensburg, McFarland Supply Co.	6.72	16.94	16.00
4266	THE NORTHWESTERN CONSOLIDATED MILLING CO., MINNEAPOLIS, MINN. Wheat Standard Middlings With Ground Screenings not Exceeding Mill Run.	Average, -----	6.83	15.95	-----
		Towanda, F. H. Hager-man.	10.75	16.88	15.00
4596	THE PRATT MILLS, PRATT KAN-SAS. Brown Wheat Shorts and Wheat Screenings.*	Waynesburg, Waynesburg Milling Co.	11.95	22.13	16.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber. Guaranteed. Found.	Fiber. Guaranteed. Found.	Fiber. Guaranteed.	Price per ton or cwt.	Certified Composition.	Identified by Micro- scopical Examination.	Chemist's number.
Per ct. 7.78	Per ct. 4.00	Per ct. 4.67	Per ct. 8.30	\$ 3.25	Wheat middlings with ground screenings not exceeding mill run.	As certified, -----	3844
5.73	4.00	7.67	11.00	2.60	Wheat middlings with ground screenings not exceeding mill run.	As certified, -----	4507
3.43	4.50	3.13	6.00	3.40	Made from wheat with ground screenings not exceeding mill run.	As certified, -----	3711
4.01	4.00	6.71	9.00	2.99	Made from wheat with ground screenings not exceeding mill run.	As certified, -----	3709
4.72	4.00	5.77	6.00	3.25	Wheat middlings with ground screenings not exceeding mill run.	As certified, -----	3777
4.13	3.00	5.46	7.50	3.00	Grey shorts and screenings not to exceed 10 per cent. screenings.	As certified, -----	3770
4.36	4.00	6.65	7.00	3.25	Hard wheat with ground screenings not exceeding mill run.	As certified, -----	3683
4.21	4.00	5.81	8.00	3.50	Wheat middlings with ground screenings not exceeding mill run.	As certified, -----	3688
5.94	5.50	6.59	8.00	3.00	Bonny flour middlings not exceeding mill run of screenings.	As certified, -----	3632
4.61	4.00	5.72	6.50	3.00	Winter wheat feed with ground screenings not exceeding mill run.	As certified, -----	3985
9.88	6.00	10.28	7.00	2.40	Cleaning middlings and palm oil.	Wheat middlings and palm oil.	3614
7.78	6.00	8.33	7.00	2.50	Cleaning middlings and palm oil.	Wheat and rye middlings with small amount of screenings and palm oil.	4007
8.96	6.00	10.02	7.00	2.50	Cleaning middlings and palm oil.	Wheat and rye middlings, cottonseed hulls and palm oil.	4025
7.19	6.00	7.15	7.00	2.50	Cleaning middlings and palm oil.	Wheat and rye middlings and palm oil.	3763
8.45	-----	8.94	-----	2.48	-----	-----	-----
5.48	4.50	9.67	11.00	2.50	-----	Wheat middlings and mill run ground screenings.	4266
4.55	3.50	5.95	8.00	2.30	Brown wheat shorts and wheat screenings (not to exceed 8% screenings.)	As certified, -----	4596

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4548	RUSH CITY MILLING CO., RUSH CITY, MINN. Standard Middlings,* -----	Corry, Miller & Parsons, --	Per et. 11.11	Per et. 16.81	Per et. 13.50
4329	SHEFFIELD-KING MILLING CO., MINNEAPOLIS, MINN. Fairybow Standard Middlings, -----	Washington, J. K. Lawson,	10.38	17.81	15.00
4620	THE SLEEPY EYE MILLS, SLEEPY EYE, MINN. Flour Middlings and Screenings, -----	Charleroi, R. C. Mountser,	11.89	19.13	15.50
4127	SUTHERLAND FLOUR MILLS CO., CAIRO, ILL. Wheat Shorts, -----	New Salem, M. Duyava, --	10.78	17.63	16.00
4127	WASHBURN-CROSBY CO., MINNEAPOLIS, MINN.				
3694	Standard Wheat Middlings, -----	Dunbar, Hardy & Porter,	11.75	17.50	14.00
	MIXED FEED—WHEAT BY-PRODUCTS.	Total average, -----	10.41	17.25	-----
4625	BRIAR CREEK MILLS, BRIAR CREEK, PA. Mixed Feed,* -----	Briar Creek, Briar Creek Mills,	12.18	16.75	-----
4483	DAYTON MILLING CO., TOWANDA, PA. Wheat Feed,* -----	Tunkhannock, Brown & Fassett,	10.45	16.56	13-18
4489	EVERETT, AUGHENBAUGH & CO., WASECO, MINN. E. A. Co., Mixed Feed, -----	Meshoppen, C. B. Tyler, --	11.19	19.88	15.00
4500	THE LARABEE FLOUR MILLS CORP., WELLINGTON, KANS. Wheat Mixed Feed, -----	Clarion, A. C. Snyder & Son,	11.35	20.06	16.00
4660	NATIONAL MILLING CO., TOLEDO, OHIO. National Feed,* -----	Lancaster, John W. Eshelman,	10.46	18.06	15.00
	WHEAT BRAN.	Average, -----	11.12	18.26	-----
	ELKLAND ROLLER MILLS, ELKLAND, PA.				
4189	Wheat Bran, -----	Elkland, Elkland Roller Mills,	9.35	16.88	-----
3815	HOFFER & GARMAN, HARRISBURG, PA. Pure Wheat Bran, -----	Harrisburg, Hoffer & Garman.	10.78	18.31	14.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Found.	Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
	Guaranteed.	Found.	Guaranteed.	Found.				
Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	\$ 2 10	Standard middlings with ground screenings not exceeding mill run.	As certified, -----	4548
5.49	4.20	6.57	8.20					
5.47	5.00	8.37	9.50		2 75	Wheat product and pulverized wheat screenings.	As certified, -----	4329
5.83	5.10	6.65	8.70		2 15	Flour middlings and wheat screenings not exceeding the mill run.	As certified, -----	4620
4.29	4.00	7.67	8.00		2 75	Wheat shorts from wheat products and ground screenings.	As certified, -----	4127
5.02	4.00	7.50	11.00		2 75	Wheat standard middlings with ground screenings not exceeding mill run.	As certified, -----	3694
5.65	-----	6.88	-----		2 80			
4.15	-----	5.87	-----		2 00		Wheat bran and wheat middlings.	4625
4.78	3.5	8.65	-----		2 25		Wheat bran and wheat middlings.	4483
5.95	3.00	8.00	12.00		2 15	Wheat bran, middlings and ground screenings not exceeding mill run.	As certified, -----	4489
4.98	3.25	8.12	8.50		2 40	Wheat bran, wheat shorts with mill run screenings not to exceed 8 per cent.	As certified, -----	4509
4.48	3.75	7.42	10.00		45 00	Soft winter wheat, wheat bran and middlings with ground screenings not exceeding mill run.	As certified, -----	4669
4.87	-----	7.61	-----		44 20			
4.59	-----	8.72	-----		2 00		Wheat bran, -----	4189
4.01	4.00	7.33	11.00		2 35		Wheat bran, -----	3815

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3663	LISTMAN MILL CO., LA CROSSE, WIS. Elmco Faney Wheat Bran, -----	Myerstown, E. L. Bleistein,	Per ct. 10.20	Per ct. 16.44	Per ct. 14.90
3641	MILLERSBURG MILLING CO., MILLERSBURG, PA. Pure Wheat Bran,* -----	Millersburg, Millersburg Milling Co.	9.00	15.19	-----
4211	THE MONARCH MILLING CO., HUTCHINSON, KANS. Winter Wheat Bran,* -----	Westfield, F. A. Ackley, --	8.72	17.06	16.00
3724	REDFIELD FLOURING MILLS, REDFIELD, S. DAK. Pure Wheat Bran,* -----	Wilkinsburg, Johnston & Smith,	8.67	16.31	13.00
3851	SPARKS MILLING CO., ALTON, ILL. Try-Me Bran, -----	Beaver Falls, Dodds & Garrett.	11.18	15.88	15.00
3676	E. STRICKLER'S SONS, LEBANON, PA. Pure Wheat Bran,* -----	Lebanon, E. Strickler's Sons.	10.98	16.44	-----
	WHEAT BRAN WITH ADMIXTURES.	Average, -----	9.86	16.56	-----
4310	CENTURY MILLING CO., MINNEAPOLIS, MINN. Jersey Wheat Bran, -----	Washington, C. S. Hunter Co.	9.90	15.63	13.00
4410	CROUCH BROTHERS CO., ERIE, PA. Wheat Bran with Ground Screenings not Exceeding Mill Run,	Oil City, Clyde D. Duffey,	10.20	17.19	15.00
3670	DULUTH-SUPERIOR MILLING CO., DULUTH, MINN. Duluth Imperial Bran, -----	Lebanon, A. M. Weltmer's Sons.	10.47	16.13	14.50
3633	HUNTER-ROBINSON-WENZ MILLING CO., ST. LOUIS, MO. Dreadnought Extra Coarse Wheat Bran.	Huntingdon, Huntingdon Milling Co.	6.88	16.31	15.50
3769	THE KANSAS FLOUR MILLS CO., KANSAS CITY, MO. Wheat Bran and Screenings, -----	Latrobe, Golde Flour & Feed Store.	9.67	15.63	14.70
3780	LARABEE FLOUR MILLS CORPORATION, HUTCHINSON, KANS. Wheat Bran, -----	Greensburg, Hudson & Kuhns.	9.19	18.06	15.00
3758	NEW PRAGUE FLOURING MILL CO., NEW PRAGUE, MINN. Seal of Minnesota Wheat Bran with Ground Screenings not Exceeding Mill Run.	Greensburg, McFarland Supply Co.	9.71	15.38	13.30
4692	Wheat Bran containing Screenings not Exceeding Mill Run.	Johnstown, A. F. Stutzman & Son.	9.16	16.50	13.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et. 5.37	Per et. 3.80	Per et. 7.73	Per et. 12.00	2 30		Wheat bran,	3663
4.16		9.19		2 00		Wheat bran,	3641
4.39	3.00	8.67	12.00	2 50		Wheat bran,	4211
5.24	4.00	9.22	10.50	2 60		Wheat bran,	3724
4.52	3.50	9.24	10.00	2 25		Wheat bran,	3851
3.87		8.26		44 00		Wheat bran and trace ground grain screenings.	3676
4.52		8.54		45.50			
5.10	4.00	11.27	13.00	2 25	Wheat bran with ground screenings not exceeding mill run.	As certified,	4310
4.43	5.00	8.90	9.00	2 00	Wheat bran with ground screenings not exceeding mill run.	As certified,	4410
5.62	3.75	10.47	11.90	2 40	Wheat bran with ground screenings not exceeding mill run.	As certified,	3679
5.13	4.00	8.47	11.00	2 30	Extra coarse wheat bran with ground screenings not exceeding mill run.	As certified,	3633
4.57	3.50	9.91	10.00	2 25	Wheat bran and screenings not to exceed 10 per cent. screenings.	As certified,	3769
3.54	3.50	8.88	10.50	2 40	Wheat bran with mill run screenings not to exceed 8 per cent.	As certified,	3789
5.14	3.00	9.55	11.25	2 20	Wheat bran with ground screenings not exceeding mill run.	As certified,	3758
5.38	3.00	9.70	15.50	2 15	Wheat bran containing screenings not exceeding mill run.	As certified,	4692

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3689	PILLSBURY FLOUR MILLS, MINNEAPOLIS, MINN. Wheat Bran with Ground Screenings not Exceeding Mill Run.	Fairchance, A. M. Frederick, Jr.	Per cent. 10.28	Per cent. 15.06	Per cent. 13.00
4549	RUSH CITY MILLING CO., RUSH CITY, MINN. Bran with Ground Screenings,* -----	Corry, Miller & Parsons, -----	9.72	17.56	15.00
4318	SCHULTZ, BAUJAN & CO., BEARDSTOWN, ILL. Sunbeam Wheat Bran, -----	Washington, Washington Grain & Feed Co.	10.77	16.31	15.00
3718	STANDARD-FILTON MILLING CO., ST. LOUIS, MO. Wheat Bran with Screenings not Exceeding Mill Run.	McKeesport, Keystone Commercial Co.	10.16	15.50	14.59
4564	STOKES MILLING CO., WATER-TOWN, SOUTH DAK. Wheat Bran with Ground Screenings not Exceeding Mill Run.	Indiana, St. Clair, Rinn & Co.	10.30	15.00	14.59
4452	THE TOPEKA FLOUR MILLS CO., TOPEKA, KANS. Wheat Bran and Scourings,* -----	Erie, Nickel Plate Flour Mills.	8.88	19.44	14.50
4267	WASHBURN CROSBY CO., MINNEAPOLIS, MINN. Wheat Bran with Ground Screenings not Exceeding Mill Run.	Towanda, F. H. Hagerman.	12.39	16.13	13.00
	RYE OFFALS.	Average, -----	9.84	16.39	-----
	RYE MIDLINGS.				
4191	M. F. BARINGER, PHILADELPHIA, PA. Rye Middlings,* -----	Knoxville, Deerfield Milling Co.	10.60	17.19	15.00
3962	MAHONING VALLEY MILLING CO., PUNXSUTAWNEY, PA. Rye Middlings,* -----	Punxsutawney, Mahoning Valley Milling Co.	13.21	17.81	-----
4128	SHANE BROS. & WILSON CO., MINNEAPOLIS, MINN. Rye Middlings,* -----	New Salem, M. Duyava, -----	10.68	16.44	15.00
4540	WASHBURN-CROSBY CO., MINNEAPOLIS, MINN. Pure Rye Middlings, -----	Jeannette, Keystone Supply Co.	9.89	18.38	14.00
3921	Pure Rye Middlings, -----	Quakertown, Allen K. Smith.	11.34	17.13	14.00
	Average, -----	10.61	17.76	-----	
	Total average, -----	11.14	17.39	-----	

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or ewt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.24	Per ct. 4.00	Per ct. 10.55	Per ct. 13.00	\$ 2 40	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	3689
5.34	4.90	10.17	10.80	2 00	Bran with ground screenings not exceeding mill run.	As certified, -----	4549
5.03	3.50	9.12	10.00	2 40	Pure extra fancy hard winter wheat bran with mill run screenings.	As certified, -----	4318
4.22	4.00	8.99	9.50	2 60	Wheat bran with screenings, not exceeding mill run.	As certified, -----	3718
5.58	3.80	10.17	13.00	2 00	Wheat bran with ground screenings not exceeding mill run.	As certified, -----	4564
4.80	3.50	9.35	10.00	2 10	Wheat bran and scourings.	As certified, -----	4452
4.46	4.00	8.87	13.00	2 40	Wheat bran with ground screenings, not exceeding mill run.	As certified, -----	4267
4.91	-----	9.62	-----	2 26	-----	-----	-----
4.55	3.00	6.37	6.50	2 80	-----	Rye middlings, corn bran and corn siftings.	4191
3.15	-----	3.53	-----	2 50	-----	Rye middlings, -----	3962
3.74	3.50	6.40	7.00	2 75	-----	Rye middlings, -----	4128
3.37	3.00	5.80	6.00	60 00	-----	-----	-----
5.06	3.00	2.09	6.00	2 60	-----	Rye middlings, -----	4540
4.22	-----	3.94	-----	56 00	-----	Rye middlings and small amount ground grain screenings.	3921
3.97	-----	4.83	-----	54 60	-----	-----	-----

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
	RYE MIDDLEDGS WITH ADMIXTURES.				
4197	THE CENTURY MILLING CO., MINNEAPOLIS, MINN. Rye Middlings, -----	Knoxville, Knoxville Roller Mills.	Per cent. 10.02	Per cent. 17.38	Per cent. 15.00
4122	EAGLE ROLLER MILLS CO., NEW ULM, MINN. Rye Middlings with Ground Screenings.	S. Brownsville, C. B. Chamberlain.	10.22	18.44	15.00
4309	J. B. AKERN & SONS, MILWAUKEE, WIS. Kern's Rye Middlings with ground Screenings.	Washington, C. S. Hunter Co.	10.66	15.81	14.00
4583	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. Choice Rye Middlings with Screenings not Exceeding Mill Run.	Wilkes Barre, Miner-Hillard Milling Co.	10.39	18.31	12-15
4215	PILLSBURY FLOUR MILLS, MINNEAPOLIS, MINN. Rye Middlings with Ground Screenings not Exceeding Mill Run.	Coudersport, Eulalia Mills,	9.63	18.19	15.00
	MIXED FEED—RYE BY-PRODUCTS.	Average, -----	10.18	17.63	-----
4320	SAGINAW MILLING CO., SAGINAW, MICH. Rye Feed,* -----	Canonsburg, Wm. H. Dunlap, Jr.	11.34	17.88	-----
	WHEAT AND RYE OFFALS.				
3880	CITY FLOURING MILLS, INC., MUNCY, PA. Wheat and Rye Middlings,* -----	Philipsburg, J. O. Reed, ..	12.15	15.06	14.44
	OAT BY-PRODUCTS.				
	OAT FEED.				
4335	MORROW MILLING CO., NEW YORK, N. Y. Oat Feed, -----	Oxford, H. M. Long,-----	8.33	8.44	5.90
4349	NATIONAL OATS CO., ST. LOUIS MO. National Oat Feed,* -----	Toughkenamon, H. A. Mendenhall.	8.63	6.81	6.50
3996	NORTHERN ILLINOIS CEREAL CO., LOCKPORT, ILL. Re-Ground Oat Feed, Mill Run, -----	Telford, J. S. Kulp & Co.,	6.69	3.18	5.50
3906	Re-Ground Oat Feed, Mill Run, -----	Newville, S. E. Shenk & Sons.	5.65	3.06	5.50
4244	Re-Ground Oat Feed, Mill Run, -----	Chambersburg, J. H. Smith & Sons. Average, -----	5.60 5.98	5.63 3.96	4.50

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber. Guaranteed. Found.		Price per ton or ewt. Per ct.	Certified Composition.	Identified by Micro- scopical Examination.	Chemist's number.	
Per et. 3.86	Per et. 3.50	Per ct. 5.80	Per et. 11.00	\$ 3 00	Rye middlings with ground screenings not exceeding mill run.	As certified, -----	4197
4.27	3.50	6.42	11.00	2 90	Rye middlings with ground screenings not exceeding mill run.	As certified, -----	4122
3.45	3.75	5.62	7.25	3 00	Rye middlings with ground screenings not exceeding mill run.	As certified. -----	4309
3.73	2.5-5	5.17	3-5	2 90	Rye middlings with ground screenings not exceeding mill run.	As certified, -----	4589
4.27	3.50	6.81	9.00	3 00	Rye middlings with ground screenings not exceeding mill run.	As certified, -----	4215
3.92		5.96		2 96			
3.38		4.57		62 00		Rye bran and mid- dlings.	4320
3.60	3.56	5.52	4.82	3 25		Wheat and rye mid- dlings.	3880
2.43	2.50	22.67	24.00	35 00		Oat feed, -----	4335
1.65	2.50	25.55	27.50	32 00		Oat feed, -----	4349
1.15	3.00	27.42	30.00	1 60		Oat feed, -----	3996
1.08	3.00	28.72	30.00	30 00		Oat feed, -----	3906
1.76	1.50	27.29	30.00	1 50	Oat hulls, oat middlings and oat shorts.	As certified, -----	4244
1.33		27.81		30 67			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.		
				Found.	Guaranteed.	
4661	PURITY OATS COMPANY, KEO-KUK, IOWA. Purity Oat Feed, -----	Elizabethtown, - M u t h Brothers.	Per ct. 6.46	Per ct. 6.75	Per ct. 5.00	
3915	QUAKER OATS CO., CHICAGO, ILL. Quaker Oat Feed, -----	Quakertown, S. S Detweiler.	6.09	6.81	5.00	
4607	Vim Oat Feed, -----	Monessen, J. A. Hager-son.	6.84	8.75	-----	
4250	Vim Oat Feed, -----	Chambersburg, Lakeview Milling Co.	6.92	8.75	-----	
4430	Vim Oat Feed, -----	Gettysburg, C. M. Wolf,	7.50	7.19	5.00	
		Average, -----	6.83	7.88	-----	
3918	ROBIN HOOD MILLS, LTD., MOOSE JAW, CANADA. Oat Feed, -----	Quakertown, Allen K. Smith.	6.73	8.19	5.25	
	BARLEY OFFALS.	Total average, -----	6.85	6.69	-----	
	BARLEY MIDDLINGS.					
4424	AKRON FEED & MILLING CO., AKRON, OHIO. Fancy White Middlings, -----	Franklin, J. H. Lavery's Sons.	10.79	16.56	12.00	
4547	PILLSBURY FLOUR MILLS CO., MINNEAPOLIS, MINN. Barley Middlings, -----	Corry, Miller & Parsons,--	10.76	16.44	12.00	
		Average, -----	10.77	16.50	-----	
	BARLEY MIXED FEED.					
4492	DULUTH-SUPERIOR MILLING CO., DULUTH, MINN. Barley Feed, -----	Meshoppen, C. B. Tyler, --	10.15	12.69	10.50	
4429	EWART & LAKE GROVELAND, N. Y. Barley Mixed Feed, -----	Gettysburg, C. M. Wolf, --	10.18	14.69	11.50	
4389	INTERNATIONAL MILLING CO., NEW PRAGUE, MINN. De-Pend-On Barley Feed, -----	Downlntown, H. C. Clarkson.	11.09	11.19	6.00	
4686	De-Pend-On Barley Feed, -----	Sealp Level, Abram Hostetler.	9.75	13.81	6.00	
		Average, -----	10.42	12.50	-----	
4443	LISTMAN MILL CO., LA CROSSE, WIS. Listman's Barley Mixed Feed, -----	Erie, Erie Milling & Supply Co.	8.90	13.06	10.70	
4456	Listman's Barley Mixed Feed, -----	Erie, Nickel Plate Flour Mills.	9.10	12.94	10.70	
		Average, -----	9.00	13.06	-----	

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 1.83	Per ct. 1.75	Per ct. 25.60	Per ct. 32.65	\$ 1 70	Oat hulls, oat middlings and oat shorts.	As certified, -----	4661
2.14	2.00	23.31	28.00	1 50	Reground oat hulls, -----	As certified, -----	3915
2.08	-----	24.12	-----	2 75	-----	Oat meal mill by-product, largely oat hulls.	4607
2.63	-----	22.57	-----	1 80	-----	Oat meal mill by-product, largely oat hulls.	4259
1.73	2.00	28.65	28.00	1 60	Oat meal mill by-product (oat middlings, oat hulls, oat shorts).	As certified, -----	4430
2.15	-----	24.66	-----	1 91	-----	-----	-----
3.46	2.50	21.72	28.00	1 85	-----	Oat feed, -----	3918
1.99	-----	25.23	-----	34.81	-----	-----	-----
3.64	4.50	4.72	9.00	2 85	Wheat middlings and maize red dog.	Barley middlings, -----	4424
3.25	2.00	2.27	5.00	3 50	-----	Barley middlings, -----	4547
3.44	-----	3.49	-----	3 18	-----	-----	-----
3.25	3.50	14.10	14.00	2 50	-----	Barley mixed feed and small amount ground screenings.	4492
3.68	2.00	11.00	10.00	2 75	Barley mixed feed with ground screenings not exceeding mill run.	As certified, -----	4429
2.55	1.00	13.75	28.00	2 30	Barley feed with ground screenings not exceeding mill run.	As certified, -----	4339
2.58	1.00	13.50	28.00	2 10	Barley feed including barley, bran, shorts and flour middlings	As certified, -----	4686
2.57	-----	13.62	-----	2 20	with ground screenings	-----	-----
3.30	2.88	12.77	19.06	2 65	-----	Barley hulls and mid-dlings.	4443
2.85	2.88	14.70	19.06	45 00	-----	Barley hulls and mid-dlings.	4456
3.08	-----	13.73	-----	40 00	-----	-----	-----

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
4276	THE NATIONAL MILLING CO., TOLEDO, OHIO.				
4451	Barley Feed, -----	Ulster, H. O. Ayer, -----	Per cent.	Per cent.	Per cent.
	Barley Feed, -----	Erie, Nickle Plate Flour Mills.	11.50 7.98	13.00 11.13	8.00 9.00
	SHEFFIELD-KING MILLING CO., MINNEAPOLIS, MINN.	Average, -----	9.74	12.07	-----
4096	Criterion Barley Feed, -----	East Stroudsburg, J. M. Wyckoff.	8.50	10.50	8.00
	WASHBURN-CROSBY CO., MINNEAPOLIS, MINN.				
4269	Barley Screenings, -----	Towanda, F. H. Hagerman.	11.15	13.50	6.00
4028	Barley Screenings, -----	Townville, C. F. Hopkins,	9.22	12.00	6.00
4403	Barley Screenings, -----	Landisville, J. C. Snavely & Sons.	10.15	13.00	6.00
4379	Barley Screenings, -----	Spruce Creek, The Spruce Creek Milling Co.	10.33	12.38	6.00
4107	Barley Screenings, -----	East Stroudsburg, J. M. Wyckoff.	9.69	11.75	6.00
		Average, -----	10.10	12.53	-----
	BUCKWHEAT OFFALS.	Total average, -----	9.83	12.55	-----
	BUCKWHEAT MIDDLEDINGS.				
4029	C. F. HOPKINS, TOWNVILLE, PA. Buckwheat Middlings,* -----	Townville, C. F. Hopkins,	15.25	22.63	-----
	MINER-HILLARD MILLING CO., WILKES-BARRE, PA.				
4577	Buckwheat Middlings, -----	Wilkes-Barre, Miner-Hillard Milling Co.	13.48	26.94	-----
	WARREN CITY MILLS, WARREN, PA.				
4555	Buckwheat Middlings,* -----	Warren, Warren City Mills,	14.61	22.94	-----
	BUCKWHEAT FEED.	Average, -----	14.44	27.50	-----
	CITY FLOURING MILLS, INC., MUNCY, PA. Buckwheat Feed, -----	Swatara, John B. Curry Est.	11.84	14.88	14.00
	ALFALFA MEAL.				
	THE ALBERT DICKINSON CO., CHICAGO, ILL.				
3616	Alfalfa Meal, -----	South Fork, J. E. Crisman.	7.33	15.38	12.00
3841	Alfalfa Meal, -----	Kittanning, J. A. Gault Co.	7.16	15.00	12.00
		Average, -----	7.24	15.19	-----
	CHAS. A. KRAUSE MILLING CO., MILWAUKEE, WIS.				
3788	Alfalfa Meal, -----	Butler, H. J. Klingler & Co.	6.98	14.94	14.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopic Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et. 3.65	Per et. 2.00	Per et. 12.60	Per et. 25.00	\$ 2 10			
2.63 3.14	1.00	17.50 15.05	25.00	45 00 43.50			
2.84	3.00	18.88	22.00	2 55	Barley product, bran, shorts, low grade flour and pulverized screenings.	Barley hulls, bran, shorts, flour middlings and pulverized screenings.	4096
3.00	1.00	9.57	25.00	2 40	Barley hulls, middlings and screenings.	As certified, -----	4269
2.95	1.00	14.41	25.00	2 50	Barley hulls, middlings and screenings.	As certified, -----	4028
2.89	1.00	8.87	25.00	40.00	Barley hulls, middlings and screenings.	As certified, -----	4403
3.52	1.00	12.37	25.00		Barley hulls, middlings and screenings.	Barley hulls, barley middlings, ground screenings and small amount small whole weed seeds.	4379
3.01	1.00	13.05	25.00	2 55	Barley hulls, middlings and screenings.	Barley hulls, barley middlings, ground screenings and trace whole weed seeds.	4107
3.07		11.65		47 25			
3.05		13.32		47 54			
4.70		1.98		3 25		Buckwheat middlings,--	4029
6.70		11.82		3 00		Buckwheat middlings,--	4577
7.78		8.45		3 40		Buckwheat middlings,--	4555
6.39		7.41		3 22			
2.58	3.75	17.40	22.00	2 29		Buckwheat feed, -----	3826
2.16	1.00	31.31	35.00	2 40	Made from alfalfa hay,	As certified, -----	3616
1.84	1.00	22.22	35.00	2 75	Made from alfalfa hay,	As certified, -----	3841
2.00		26.76		2 58			
1.86	1.00	26.12	30.00	2 50		Alfalfa meal, -----	3785

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4465	THE WESTERN GRAIN PRODUCTS CO., HAMMOND, IND. Alfalfa Meal, -----	Wesleyville, W. D. Ripley,	Per cent. 7.16	Per cent. 19.50	Per cent. 12.00
3932	E. J. WOOLWORTH, KEARNEY, NFBR. Pure Alfalfa Meal, -----	Lansdale, A. C. Godshall & Co., Inc.	7.10	13.75	15.00
	DRIED BEET PULP.	Total average, -----	7.14	15.71	-----
3944	THE HOTTELET CO., MILWAUKEE, WIS. Dried Beet Pulp, -----	West Point, Heebner & Kriebel.	9.57	9.81	8.00
4678	THE LARROWE MILLING CO., DETROIT, MICH. Dried Beet Pulp, -----	Johnstown, G. Bostert & Sons.	8.30	10.81	8.00
3719	Dried Beet Pulp, -----	McKeesport, Keystone Commercial Co.	5.99	9.38	8.00
3708	Dried Beet Pulp, -----	Braddock, The Irwin Muir Co.	8.46	8.88	8.00
4612	Dried Beet Pulp, -----	Charleroi, Western Flour Co.	8.70	10.75	8.00
4102	Dried Beet Pulp, -----	East Stroudsburg, J. M. Wyckoff.	9.49	11.75	8.00
	MIXED FEEDS.	Average, -----	8.18	10.31	-----
	PROPRIETARY DAIRY FEEDS.	Total average, -----	8.41	10.23	-----
4477	AMERICAN MILLING CO., PEORIA, ILL. Ameo Dairy Feed, -----	Tunkhannock, Brown & Fassett.	8.61	26.56	25.00
4003	Ameo Dairy Feed, -----	Somerset, John G. Emert,	9.92	25.69	25.00
		Average, -----	9.26	26.13	-----
4454	E. I. BAILEY, CLEVELAND, OHIO. Bailey's Blended Balanced Ration, -----	Erie, Nickel Plate Flour Mills.	8.78	28.38	26.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or ewt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et. 2.00	Per et. 1.00	Per et. 22.62	Per et. 35.00	\$ 2.85	-----	Alfalfa meal, -----	4465
1.44	2.50	29.68	27.50	2.65	-----	Alfalfa meal, -----	3932
1.86	-----	26.39	-----	2.63	-----	-----	-----
0.63	0.50	16.19	20.00	52.00	-----	Dried beet pulp, -----	3944
1.40	0.50	18.07	20.00	50.00	Residue of sugar beets dried after extraction of sugar.	As certified, -----	4678
0.63	0.50	18.52	20.00	2.85	Residue of sugar beets dried after extraction of sugar.	As certified, -----	3719
0.61	0.50	19.18	20.00	3.25	Residue of sugar beets dried after extraction of sugar.	As certified, -----	3708
1.15	0.50	18.27	20.00	2.75	Residue of sugar beets dried after extraction of sugar.	As certified, -----	4612
0.71	0.50	15.86	20.00	2.50	Residue of sugar beets dried after extraction of sugar.	As certified, -----	4102
0.90	-----	17.98	-----	55.40	-----	-----	-----
0.86	-----	17.68	-----	54.83	-----	-----	-----
4.15	8.00	12.40	16.00	3.25	Corn gluten feed, clipped oat by-product, corn distillers' dried grains and solubles, cottonseed meal, palm kernel meal, calcium carbonate and salt.	As certified, -----	4477
5.78	8.00	10.37	16.00	3.25	Corn gluten feed, clipped oat hy-product, corn distillers' dried grains and solubles, cottonseed meal, palm kernel meal, calcium carbonate and salt.	Corn gluten feed, oat middlings, oat hulls, oat shorts, corn distillers' grains and solubles, cottonseed meal, calcium carbonate and salt.	4003
4.97	-----	11.38	-----	3.25	-----	-----	-----
6.25	5.00	9.70	13.00	61.00	Hominy feed, cottonseed meal, old process oil meal, corn gluten feed, ground oats, wheat bran with not to exceed mill run screenings and 1% salt.	As certified, -----	4454

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3656	THE BLATCHFORD CALF MEAL FACTORY, WAUKEGAN, ILL. Blatchford's Quality Dairy Meal with Alfalfa.*	Sunbury, Blank & Gottshall.	Per ct. 7.69	Per ct. 19.31	Per ct. 17.50
4178	GEORGE C. BROOKS, WELLSBORO, PA. Brooks' Mixture, -----	Wellsboro, George C. Brooks.	9.14	27.13	-----
4523	CHAPIN & CO., HAMMOND, IND. Unicorn Dairy Ration, -----	Montrose, Harrington & Wilson.	8.70	28.13	26.00
4084	Unicorn Dairy Ration, -----	Greenville, J. W. Nelson,--	8.33	25.63	26.00
4210	Unicorn Dairy Ration, -----	Westfield, H. Z. Pride & Son.	8.41	29.38	26.00
4401	Unicorn Dairy Ration, -----	Landisville, J. C. Snavely & Sons.	8.90	27.06	26.00
3802	Unicorn Dairy Ration, -----	Butler, George Walter & Sons.	8.60	26.44	26.00
Average, -----			8.58	27.33	-----

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber. Guaranteed. Found.		Price per ton or cwt. Guaranteed.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.	
Per ct. 7.31	Per ct. 5.00	Per ct. 15.10	Per ct. 18.00	\$ 2 40	Rice polish, bran, blood flour, ground oats, coca shell meal, wheat flour, bean meal, alfalfa meal and $\frac{1}{2}$ of 1% salt.	As certified, -----	3656
5.96		8.42		3 00	Suco dairy feed, wheat bran, gluten feed, buckwheat shorts, oil meal and cottonseed meal.	Wheat bran, corn gluten feed, buckwheat shorts, oat middlings, oat hulls, oat shorts, linseed oil meal, cottonseed meal, corn distillers' dried grains and solubles, palm kernel meal, calcium carbonate and salt.	4178
6.35	5.50	8.15	11.00	3 40	Corn distillers' grains, cottonseed meal, linseed meal, hominy meal, gluten feed, corn starch by-products corn bran, barley feed, copra meal, wheat bran, brewers' grains and salt.	As certified, -----	4523
6.47	5.50	9.46	11.00	3 25	Corn distillers' grains, cottonseed meal, linseed meal, hominy meal, gluten feed, corn starch by-products with corn bran, barley feed, malt sprouts, wheat bran, brewers' grains and salt.	As certified, -----	4084
6.07	5.50	6.94	10.00	3 25	Ajax flakes, (corn distillers' grains), gluten feed, corn starch by-product with corn bran, cottonseed meal, hominy meal, barley feed, malt sprouts, brewers' grains, pure wheat bran and linseed meal.	Corn distillers' dried grains, corn gluten feed, corn starch by-product with corn bran, cottonseed meal, hominy meal, barley feed, malt sprouts, brewers' dried grains, wheat bran, linseed meal and salt.	4210
6.05	5.50	9.02	11.00	69 00	Corn distillers' grains, cottonseed meal, linseed meal, hominy meal, gluten feed, corn starch by-products with corn bran, barley feed, copra meal, wheat bran, brewers' grains and salt.	As certified, -----	4401
6.26	5.50	8.79	11.00	63 00	Corn distillers' grains, cottonseed meal, linseed meal, hominy meal, gluten feed, corn starch by-products with corn bran, barley feed, malt sprouts, wheat bran, brewers' grains and salt.	As certified, -----	3802
		8.47		66 00			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4613	Triangle Dairy Feed, -----	Charleroi, Western Flour Co.	Per ct. 8.21	Per ct. 25.50	Per ct. 21.00
3679	CLOVER LEAF MILLING CO., BUFFALO, N. Y. Big Clover Mills Complete Ration,---	Everett, Francis Baker,----	9.00	26.44	24.00
4208	Big Clover Mills Complete Ration,---	Westfield, H. Z. Pride & Son.	8.93	22.81	24.00
4527	THE ALBERT DICKINSON CO., CHICAGO, ILL. Dickinson Dairy Feed, -----	Average, ----- Montrose, Andre & Sweet,	8.96 9.17	24.63 26.63	----- 24.00
4688	Dickinson Dairy Feed, -----	Scalp Level, Abram Hostetter.	9.22	26.63	24.00
4116	Dickinson Dairy Feed, -----	Stroudsburg, Franklin Le-Bar.	8.71	24.25	24.00
4605	Dickinson Dairy Feed, -----	Honesdale, Wayne Milling Co.	8.97	26.63	24.00
4240	DIEHL, OMWAKE & DIEHL, CHAMBERSBURG, PA. D. O. D. Dairy Feed, -----	Average, ----- Chambersburg, Diehl Omwake & Diehl.	9.01 8.85	26.04 26.88	----- 21.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per et.	Per et.	\$ 3 50	Linseed meal, cottonseed meal, gluten feed, corn germ meal, copra meal, hominy meal, oat meal mill by-product, (oat middlings, oat hulls oat shorts) and salt.	Linseed oil meal, cottonseed meal, corn gluten feed, corn germ meal, cocoanut oil meal, hominy meal, oat middlings, oat hulls, oat shorts and salt.	4613
5.28	4.00	16.95	12.00				
3.60	4.50	15.45	15.00	3 25	Cottonseed meal, corn gluten meal, brewers' dried grains, malt sprouts, wheat bran with screenings not exceeding mill run, linseed meal, alfalfa meal and $\frac{1}{2}$ of 1% salt.	As certified, -----	3679
6.18	4.50	11.07	15.00	3 25	Cottonseed meal, corn gluten meal, brewers' dried grains, malt sprouts, wheat bran with screenings not exceeding mill run, linseed meal, alfalfa meal and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, brewers' dried grains, malt sprouts, wheat bran with screenings, linseed oil meal, alfalfa meal, cocoanut oil cake meal, salt and small amount small whole weed seeds.	4208
4.89	-----	13.26	-----	3 25			
5.20	5.50	10.12	11.00	3 25	Corn gluten feed, dried brewers' grains, wheat bran, wheat middlings, cottonseed meal, linseed meal, hominy feed and $\frac{1}{2}$ of 1% salt.	As certified, -----	4527
6.23	5.50	8.35	11.00	3 15	Corn gluten feed, dried brewers' grains, wheat bran, wheat middlings, cottonseed meal, linseed meal, hominy feed and $\frac{1}{2}$ of 1% salt.	As certified, -----	4688
5.85	5.50	10.25	11.00	3 40	Corn gluten feed, dried brewers' grains, wheat bran, wheat middlings, cottonseed meal, linseed meal, hominy feed and $\frac{1}{2}$ of 1% salt.	As certified, -----	4116
6.00	5.50	8.85	11.00	3 30	Corn gluten feed, dried brewers' grains, wheat bran, wheat middlings, cottonseed meal, linseed meal, hominy feed and $\frac{1}{2}$ of 1% salt.	As certified, -----	4605
5.82	-----	9.39	-----	3 28			
6.30	6.50	10.06	14.00	60 00	Corn distillers' grains, distillers' rye grains, brewers' grains, alfalfa meal, wheat bran, corn chop, oil meal, cottonseed meal and oats chop.	As certified, -----	4240

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3781	DIXIE MILLS CO., EAST ST. LOUIS, ILL. ANCHOR DAIRY FEED, -----	Butler, Thompson & Glenn,	Per ct. 8.95	Per ct. 23.06	Per ct. 24.00
3850	Dixie Dairy Feed, -----	Beaver Falls, Dodd & Garrett.	10.17	16.81	16.50
4275	ECONOMIC FEED CO., INC., NEW YORK, N. Y. Economic Dairy Feed, -----	Ulster, H. O. Ayer, -----	9.15	26.81	23.00
4498	Economic Dairy Feed, -----	Laceyville, A. L. Vander-vort.	9.13	25.88	23.00
4187	ELKLAND ROLLER MILLS, ELK- LAND, PA. Cow-N-S-K Ration, -----	Average, ----- Elkland, Elkland Roller Mills.	9.44 9.51	26.35 24.25	----- 20.22
4228	GLOBE ELEVATOR CO., BUF- FALO, N. Y. Globe Creamery Feed, -----	Canton, Canton Mercan- tile Co.	9.18	25.00	23.00
4013	Globe Creamery Feed, -----	DuBois, J. F. Dinger Milling Co.	10.06	26.13	23.25
3756	Globe Creamery Feed, -----	Doyles-town, The Doyles- town Poultry & Supply Co.	9.54	26.44	23-25

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Guaranteed.	Found.	Guaranteed.				
Per ct. 4.49	Per ct. 4.00	Per ct. 14.26	Per ct. 12.00	\$ 3 00	Corn feed meal, cottonseed meal, corn gluten feed, old process linseed meal, wheat bran, wheat middlings, alfalfa meal, dried brewers' grains and 1% salt.	As certified, ----- 3781
3.76	3.50	18.33	12.00	2 50	Ground alfalfa, cottonseed meal, corn feed meal, ground flaxseed screenings, clipped oat by-product and salt.	Ground alfalfa, cottonseed meal, corn feed meal, ground flaxseed screenings, clipped oat by-product, salt and small amount small whole weed seeds. 3850
6.45	5.00	12.90	16.00	3 20	Dried distillers' and yeast grains from corn, rye, barley, malt and sprouts, linseed meal, cottonseed meal, dry brewers' grain from barley, wheat bran, humus and salt.	As certified, ----- 4275
5.80	5.00	13.10	16.00	3 20	Dried distillers' and yeast grains from corn, rye, barley, malt and sprouts, linseed meal, cottonseed meal, dry brewers' grain from barley, wheat bran, humus and salt.	As certified, ----- 4498
6.13	-----	13.00	-----	3 20		
5.65	4-5	9.30	11-12	3 00	Oil meal, cottonseed meal, wheat bran, wheat middlings and corn meal.	As certified, ----- 4187
5.61	5.00	9.70	9.00	3 00	Corn distillers' dried grains, brewers' dried grains or malt sprouts, beet pulp, corn gluten feed, cottonseed meal, linseed oil meal, ground oats, clipped oat by-products, wheat bran, wheat middlings and salt $\frac{1}{2}$ of 1%.	Corn distillers' dried grains, brewers' dried grains, beet pulp, corn gluten feed, cottonseed meal, linseed oil meal, ground oats, clipped oat by-products, wheat bran, wheat middlings and salt. 4228
4.73	5-7	8.00	9.00	3 25	Corn distillers' dried grains, brewers' dried grains, beet pulp, cottonseed meal, linseed oil meal, clipped oat by-product, wheat bran and middlings, oat hulls, oat shorts, wheat bran and wheat middlings with ground grain screenings, corn gluten feed and salt $\frac{1}{2}$ of 1%.	Corn distillers' dried grains, brewers' dried grains, beet pulp, cottonseed meal, linseed oil meal, oat middlings, oat hulls, oat shorts, wheat bran and wheat middlings with ground grain screenings, corn gluten feed and salt. 4013
4.39	5-7	9.33	9.00	3 15	Corn distillers' dried grains, brewers' dried grains, beet pulp, cottonseed meal, linseed oil meal, clipped oat by-product, wheat bran and middlings with ground grain screenings, corn gluten feed and salt $\frac{1}{2}$ of 1%.	As certified, ----- 3756

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3967	Globe Creamery Feed, -----	Lidnsey Station, Keystone Flour & Feed Co.	Per ct. 9.03	Per ct. 24.31	Per ct. 23-25
4516	Globe Creamery Feed, -----	Brookville, Kline's Sifter Mills.	10.79	26.19	23.00
3959	Globe Creamery Feed, -----	Punxsutawney, Mahoning Valley Milling Co.	9.42	24.31	23.00
4589	HALES & EDWARDS CO., CHICAGO, ILL. Eatail Dairy Feed, -----	Average, -----	9.67	25.40	-----
		Sewickley, J. F. Malone, --	9.63	22.19	20.00
4060	Red Horn Dairy Feed, -----	Carnegie, J. H. Burgan & Son,	9.60	28.19	25.00
4591	Red Horn Dairy Feed, -----	Sewickley, J. F. Malone, --	9.41	26.19	25.00
4199	JAMESTOWN ELECTRIC MILLS, JAMESTOWN, N. Y. Jem Cream Dairy Ration, -----	Average, -----	9.50	27.19	-----
		Knoxville, Knoxville Roller Mills.	9.39	22.56	22.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et. 5.30	Per et. 5-7	Per et. 9.29	Per et. 9.00	\$ 3 50	Corn distillers' dried grains, brewers' dried grains, or malt sprouts, beet pulp, corn gluten feed, cottonseed meal, linseed oil meal, ground oats, clipped oat by-product, wheat bran, wheat middlings and salt $\frac{3}{4}$ of 1%.	As certified, -----	3967
4.80	5.00	9.50	9.00	3 25	Corn distillers' dried grains, brewers' dried grains, or malt sprouts, beet pulp, corn gluten feed, cottonseed meal, linseed oil meal, ground oats, clipped oat by-product, wheat bran, wheat middlings and salt $\frac{3}{4}$ of 1%.	Corn distillers' dried grains, brewers' dried grains, beet pulp, corn gluten feed, cottonseed meal, linseed oil meal, ground oats, clipped oat by-product, wheat bran, wheat middlings and salt.	4516
5.03	5.00	9.92	9.00	3 25	Corn distillers' dried grains, brewers' dried grains, or malt sprouts, beet pulp, corn gluten feed, cottonseed meal, linseed oil meal, ground oats, clipped oat by-product, wheat bran, wheat middlings and salt $\frac{3}{4}$ of 1%.	Corn distillers' dried grains, brewers' dried grains, malt sprouts, beet pulp, corn gluten feed, cottonseed meal, linseed oil meal, ground oats, clipped oat by-product, wheat bran, wheat middlings and salt.	3959
4.98	-----	9.29	-----	3 23			
4.85	4.00	8.62	10.00	3 50	Ground barley, ground oats, old process linseed oil meal, corn gluten feed, wheat bran, brewers' dried grains, malt sprouts, cottonseed meal, corn feed meal, and hominy feed.	As certified, -----	4589
5.95	4.00	8.91	15.00	3 20	Cottonseed meal, corn gluten feed, linseed oil meal, wheat bran, malt sprouts, corn feed meal and brewers' dried grains.	As certified, -----	4068
5.03	4.00	8.97	15.00	3 50	Cottonseed meal, corn gluten feed, linseed oil meal, wheat bran, malt sprouts, corn feed meal and brewers' dried grains.	As certified, -----	4591
5.49	-----	8.94	-----	3 25			
6.27	6.00	8.72	10.00	3 25	Corn distillers' dried grains, cottonseed meal, linseed oil meal, corn gluten feed, barley bran, barley middlings, rye middlings, corn meal, whole oats, and ground wheat middlings.	As certified, -----	4199

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4022	Jem Cream Dairy Ration, -----	DuBois, Timlin, Kelly Co.,	Per ct. 8.71	Per ct. 20.38	Per ct. 22.00
4020	Jem Milk Maker, -----	Average, ----- DuBois, Timlin, Kelly Co.,	8.90 8.54	21.47 22.94	----- 24.00
4556	Rob Roy Dairy Feed, -----	Warren, Frank Trusler,----	9.31	22.06	20.00
3833	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Cream City Dairy Feed,* -----	Hummelstown, Joseph Burkholder.	8.87	20.06	19.00
4233	Cream City Dairy Feed,* -----	Canton, Canton Mercantile Co.	8.87	21.13	19.00
3941	Cream City Dairy Feed,* -----	West Point, Heebner & Kreibel.	8.21	21.31	19.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.10	Per ct. 6.00	Per ct. 8.53	Per ct. 10.00	\$ 3.30	Corn distillers' dried grains, cottonseed meal, linseed oil meal, corn gluten feed, barley bran, barley middlings, rye middlings, corn meal, whole oats, and ground wheat middlings.	As certified, -----	4022
6.19	-----	8.62	-----	3.28			
6.99	8.00	9.21	11.00	3.40	Wheat middlings, corn distillers' dried grains, brewers' dried grains, barley middlings, barley bran, rye middlings, corn gluten feed, cottonseed meal, linseed oil meal, corn meal and small percentage of fine salt.	As certified, -----	4020
4.98	4.00	8.42	9.00	3.25	Cottonseed meal, old process linseed oil meal, corn gluten feed, hominy feed, corn feed meal, wheat bran, wheat middlings with ground screenings not exceeding mill run and whole oats ground.	As certified, -----	4556
4.66	3.50	13.31	9.00	2.75	Cottonseed meal, brewers' grains, corn gluten feed, old process linseed meal, hominy feed, corn germ meal, wheat bran and wheat middlings with ground screenings not exceeding mill run, oat meal, mill by-products, (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	3833
4.19	3.50	15.86	15.00	2.75	Corn gluten feed, cottonseed meal, hominy feed, brewers' dried grains, old process linseed oil meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), wheat middlings, rye middlings with screenings not exceeding mill run, velvet bean feed and salt.	As certified, -----	4233
4.62	3.50	12.92	15.00	58.00	Brewers' grains, corn gluten feed, old process linseed meal, hominy feed, corn germ meal, wheat bran and wheat middlings with ground screenings not exceeding mill run, oat meal mill by-product, (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	3941

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4150	Cream City Dairy Feed,* -----	Altoona, Klepser Brothers,	Per cent. 7.52	Per cent. 23.75	Per cent. 19.00
4657	Cream City Dairy Feed,* -----	Frankstown, J. H. Rodkey.	7.36	24.13	19.00
4499	Cream City Dairy Feed,* -----	Laceeville, A. L. Vanderwort.	9.81	23.50	19.00
4458	Cream City Dairy Feed,* -----	Erie, West Side Feed Co.,	7.50	20.31	19.00
3909	Krause Dairy Feed, -----	Average, -----	8.30	22.03	-----
		Quakertown, S. S. Detweiler..	8.07	26.00	24.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.54	Per ct. 3.50	Per ct. 12.45	Per ct. 15.00	\$ 3.25	Corn gluten feed cottonseed meal, hominy feed, brewers' dried grains, old process linseed oil meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), wheat middlings, rye middlings with screenings not exceeding mill run, velvet bean feed and salt.	Corn gluten feed, cottonseed meal, hominy feed, brewers' dried grains old process, linseed oil meal, oat middlings, oat hulls, oat shorts, wheat middlings, rye middlings with screenings and salt.	4150
5.10	4.50	11.05	15.00	3.00	Corn gluten feed, cottonseed meal, hominy feed, brewers' dried grains, old process linseed oil meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), wheat bran, wheat middlings, rye middlings with screenings not exceeding mill run, velvet bean feed and salt.	Corn gluten feed, cottonseed meal, hominy feed, brewers' dried grains old process, linseed oil meal, oat middlings, oat hulls, oat shorts, wheat bran, wheat middlings rye middlings with screenings and salt.	4657
4.78	3.50	13.10	9.00	3.00	Cottonseed meal, brewers' grains, corn gluten feed, old process linseed meal, hominy feed, corn germ meal, wheat bran and wheat middlings with ground screenings not exceeding mill run, oat meal, mill by-product, (oat middlings, oat hulls, oat shorts), peanut oil meal and salt.	Cottonseed meal, brewers' dried grains, corn gluten feed, old process linseed oil meal, hominy feed, corn germ meal, wheat bran, and wheat middlings with ground screenings, oat middlings, oat hulls, oat shorts, peanut oil meal, peanut hulls and salt.	4499
4.78	3.50	11.75	9.00	59.00	Cottonseed meal, brewers' grains, corn gluten feed, old process linseed meal, hominy feed, corn germ meal, wheat bran and rye and wheat middlings with ground screenings not exceeding mill run, oat meal mill by-products, (oat middlings, oat hulls, oat shorts) and salt.	As certified. -----	4458
4.67 6.48	----- 5.00	12.92 11.07	----- 15.00	58.86 2.80	Corn distillers' dried grains, brewers' dried grains, corn gluten feed, old process linseed oil meal, malt sprouts, cottonseed meal, hominy feed, corn germ meal, wheat bran and wheat middlings with screenings not exceeding mill run and salt.	As certified, -----	3909

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4535	Krause Dairy Feed, -----	Lewisburg, E. C. Noll, ---	Per et 8.40	Per et 25.69	Per et. 24.00
4656	Krause Dairy Feed, -----	Frankstown, J. H. Rodkey.	8.67	25.88	24.00
4144	Krause Dairy Feed, -----	Millerstown, I. B. Seerist,	8.70	26.25	24.00
4331	THE LARROWE MILLING CO., DETROIT, MICH. Larro-Feed, -----	Average, -----	8.46	25.96	-----
		New Castle, City Roller Mills.	10.06	21.94	20.00
4044	Larro-Feed, -----	Mill Hall, Continental Condensed Milk Co.	8.95	23.38	20.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.	Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
	Found.	Guaranteed.				
Per ct. 5.93	Per ct. 5.00	Per ct. 10.52	Per ct. 13.00	\$ 3 20	Corn distillers' dried grains, brewers' dried grains, cottonseed meal, corn gluten feed, old process linseed oil meal, hominy feed, corn germ meal, malt sprouts, wheat middlings, wheat bran, rye middlings with screenings not exceeding mill run and salt.	As certified, ----- 4535
6.13	5.00	10.02	13.00	3 50	Corn distillers' dried grains, brewers' dried grains, cottonseed meal, corn gluten feed, old process linseed oil meal, hominy feed, corn germ meal, malt sprouts, wheat middlings, wheat bran, rye middlings with screenings not exceeding mill run and salt.	As certified, ----- 4656
6.06	5.00	10.47	13.00	3 00	Corn distillers' dried grains, brewers' dried grains, corn gluten feed, old process linseed oil meal, malt sprouts, cottonseed meal, hominy feed, corn germ meal, wheat bran and wheat middlings with screenings not exceeding mill run and salt.	As certified, ----- 4144
6.15	-----	10.52	-----	3 13		
5.15	3.00	10.87	14.00	60 00	Cottonseed meal, corn gluten feed, corn feed meal, old process linseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, ----- 4331
5.00	3.00	13.50	14.00	2 90	Cottonseed meal, corn gluten feed, corn feed meal, old process linseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, ----- 4044

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3615	Larro-Feed, -----	South Fork, J. E. Crisman.	Per cent. 9.11	Per cent. 21.44	Per cent. 20.00
4356	Larro-Feed, -----	Brandywine Summit, H. C. Fairlamb & Sons.	9.72	20.38	20.00
4165	Larro-Feed, -----	Wellsboro, Farmers' Feed Store.	8.93	23.00	20.00
3868	Larro-Feed, -----	Beaver, A. F. Grine, -----	— 9.59	21.63	20.00
4568	Larro-Feed, -----	Indiana, Hetrick, Wilson & Co.	9.26	21.25	20.00
4627	Larro-Feed, -----	Bloomsburg, R. R. Ikeler,	9.72	22.44	20.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Found.	Fat.		Fiber.		Price per ton or ewt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
	Guaranteed.	Found.	Guaranteed.	Found.				
Per ct.	Per ct.	Per et.	Per et.	Per et.	\$ 3 00	Cottonseed meal, corn gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{1}{3}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	3615
4.36	3.00	11.66	14.00	14.00	65 00	Cottonseed meal, corn gluten feed, corn feed meal, old process linseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{1}{3}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	4356
4.30	3.00	10.00	14.00	14.00	3 05	Cottonseed meal, corn gluten feed, corn feed meal, old process linseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{1}{3}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	4165
5.41	3.00	11.17	14.00	14.00	3 20	Cottonseed meal, corn gluten feed, corn feed meal, old process linseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{1}{3}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	3868
4.23	3.00	10.43	14.00	14.00	3 30	Cottonseed meal, corn gluten feed, old process linseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{1}{3}$ of 1% salt. Wheat bran and wheat may contain ground screenings not exceeding mill run.	As certified, -----	4568
4.38	3.00	12.40	14.00	14.00	3 35	Cottonseed meal, corn gluten feed, corn feed meal, old process linseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{1}{3}$ of 1% salt. Wheat bran and wheat may contain ground screenings not exceeding mill run.	As certified, -----	4627
4.20	3.00	11.47	14.00	14.00	3 35	Cottonseed meal, corn gluten feed, corn feed meal, old process linseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{1}{3}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	10

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
3684	Larro-Feed, -----	Uniontown, King Brothers,	Per ct. 10.11	Per ct. 21.31	Per ct. 20.00
3705	Larro-Feed, -----	Braddock, The Irwin Muir Co.	10.71	20.94	20.00
4339	Larro-Feed, -----	Oxford, Oxford Grain & Hay Co.	8.86	21.88	20.00
4099	Larro-Feed, -----	East Stroudsburg, J. M. Wyckoff.	8.80	22.13	20.00
4043	Larrove's Big 6 Six Complete Dairy Feed.	Average, -----	9.44	21.81	-----
		Mill Hall, Continental Condensed Milk Co.	9.79	22.63	21.00
3040	Larrove's Big 6 Six Complete Dairy Feed.	Herndon, D. H. Engle & Son.	9.04	22.31	21.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per et.	Per et.	\$			
3.70	3.00	11.50	14.00	3 25	Cottonseed meal, corn gluten feed, old process linseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	3684
3.21	3.00	11.93	14.00	3 00	Cottonseed meal, corn gluten feed, old process linseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	3705
5.15	3.00	10.15	14.00	60 00	Cottonseed meal, corn gluten feed, corn feed meal, old process linseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	4339
4.74	8.00	11.11	14.00	3 30	Cottonseed meal, corn gluten feed, corn feed meal, old process linseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified, -----	4099
4.49	-----	11.34	-----	62 67			
5.92	4.00	8.14	12.00	2 90	Linseed oil meal, cottonseed meal, corn gluten feed, hominy feed, corn feed meal, rye middlings, wheat bran, wheat middlings and $\frac{3}{4}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	4043
6.53	4.00	8.41	12.00	2 53	Linseed oil meal, cottonseed meal, corn gluten feed, distillers' dried grains (mainly from corn), hominy feed, wheat bran, wheat middlings and $\frac{3}{4}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	3640

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4166	Larrove's Big 6 Six Complete Dairy Feed.	Wellsboro, Farmers' Feed Store.	Per et. 8.52	Per ct. 24.00	Per et. 21.00
4626	Larrove's Big 6 Six Complete Dairy Feed.	Bloomsburg, R. R. Ikeler,	9.13	23.06	21.00
4513	Larrove's Big 6 Six Complete Dairy Feed.	Brookville, Kline's Sifter Mills.	9.95	24.63	21.00
4463	Larrove's Big 6 Six Complete Dairy Feed.	Wesleyville, W. D. Ripley,	8.97	23.63	21.00
4642	MARITIME TRADING CORPORATION, BUFFALO, N. Y. Bull Brand Dairy Ration, -----	Average, -----	9.23	23.38	-----
		York, Anderson Bros. & Co.	8.39	26.13	24.00
4588	C. P. MATTHEWS & SONS, INC., SCRANTON, PA. Best Cow Feed, -----	Wilkes-Barre, C. P. Matthews & Sons, Inc.	10.63	19.25	15.00
4581	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. Mihimico Dairy Feed, -----	Wilkes-Barre, Miner-Hillard Milling Co.	10.18	21.13	17.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopic Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.92	Per ct. 4.00	Per ct. 8.76	Per ct. 12.00	\$ 3.05	Linseed oil meal, cotton-seed meal, corn gluten feed, hominy feed, corn feed meal, rye middlings, wheat bran, wheat middlings and $\frac{2}{3}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	4166
6.28	4.00	7.02	12.00	3.35	Linseed oil meal, cotton-seed meal, corn gluten feed, hominy feed, corn feed meal, rye middlings, wheat bran, wheat middlings and $\frac{2}{3}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	4626
5.75	4.00	7.60	12.00	3.25	Linseed oil meal, cotton-seed meal, corn gluten feed, hominy feed, corn feed meal, rye middlings, wheat bran, wheat middlings and $\frac{2}{3}$ of 1% salt. Bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	4513
6.35	4.00	7.67	12.00	3.15	Linseed oil meal, corn gluten feed, hominy feed, corn feed meal, rye middlings, wheat bran, wheat middlings and $\frac{2}{3}$ of 1% salt. Wheat bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	4463
6.29	-----	7.93	-----	3.04			
6.45	5.00	10.15	12.00	66.00	Dried brewers' grains, old process oil meal, cottonseed meal, corn gluten feed, hominy feed, cocoanut meal, wheat bran, wheat middlings and salt $\frac{2}{3}$ of 1%. Wheat bran and middlings may contain ground screenings not exceeding mill run.	As certified, -----	4642
4.75	5.00	6.00	8.00	3.00	Corn, oats, bran, gluten, linseed and cotto.	Corn, oats, wheat bran, corn gluten feed, linseed oil meal and cottonseed meal.	4588
6.43	5.00	6.55	9.00	3.10	Hominy feed, corn oil meal, buckwheat middlings, wheat bran, cottonseed meal, brewers' grains, old process oil meal and salt.	As certified, -----	4581

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
4146	NOWAK MILLING CORPORATION, BUFFALO, N. Y. Domino Creamery Feed, -----	Millerstown, A. H. Ulsh,--	Per ct. 8.74	Per ct. 28.00	Per ct. 22.00
4184	PARK & POLLARD CO., BOSTON, MASS. Stevens 44 Dairy Ration, -----	Westfield, F. A. Ackley, --	9.64	23.88	24.00
4476	Stevens 44 Dairy Ration, -----	Bellefonte, G. R. Danenhower & Son.	9.05	25.31	24.00
4333	Stevens 44 Dairy Ration, -----	New Castle, Fisher Feed & Coal Co.	10.06	25.13	24.00
3985	Stevens 44 Dairy Ration, -----	Lausdale, A. C. Godshall & Co., Inc.	8.09	24.06	24.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Found.	Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
	Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.84	Per ct. 4.00	Per ct. 11.32	Per ct. 14.00	\$ 3 10	Cottonseed meal, corn gluten feed, linseed oil meal, cocoanut oil meal, wheat middlings, malt sprouts, brewers' dried grains, ground and bolted grain screenings, clipped oat by-product and salt $\frac{1}{2}$ of 1%.	As certified, -----	4146	
5.42	5.00	10.82	14.00	3 25	Oil meal, cottonseed meal, wheat bran with mill run of screenings, corn gluten feed, cocoanut oil meal, pea meal, corn distillers' grains, brewers' dried grains, ground barley, wheat middlings, hominy meal, corn germ meal, buckwheat middlings, corn meal and salt.	As certified, -----	4184	
5.34	5.00	12.10	14.00	3 30	Oil meal, cottonseed meal, wheat bran with mill run of screenings, corn gluten feed, cocoanut oil meal, pea meal, corn distillers' grains, brewers' dried grains, ground barley, wheat middlings, hominy meal, corn germ meal, buckwheat middlings, corn meal and salt.	As certified, -----	4476	
6.06	5.00	10.82	14.00	3 50	Oil meal, cottonseed meal, wheat bran with mill run of screenings, corn gluten feed, cocoanut oil meal, pea meal, corn distillers' grains, brewers' dried grains, ground barley, wheat middlings, hominy meal, corn germ meal, buckwheat middlings, corn meal and salt.	Linseed oil meal, cottonseed meal, wheat bran, corn gluten feed, cocoanut oil meal, malt sprouts, corn distillers' dried grains, brewers' dried grains, ground barley wheat middlings, hominy meal, corn germ meal, buckwheat middlings, corn meal and salt.	4333	
6.56	5.00	10.74	14.00	3 30	Oil meal, cottonseed meal, wheat bran with mill run of screenings, corn gluten feed, cocoanut oil meal, pea meal, corn distillers' grains, brewers' dried grains, ground barley, wheat middlings, hominy meal, corn germ meal, buckwheat middlings, corn meal and salt.	As certified, -----	3933	

TABLE IV.—ANALYSES OF SAMPLES OF

Chemists' number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4426	Stevens 44 Dairy Ration, -----	Franklin, J. H. Lavery's Sons.	Per et. 9.74	Per et. 28.63	Per et. 24.00
4352	Stevens 44 Dairy Ration, -----	Warren, Warren City Mills,	8.78	27.44	24.00
		Average, -----	9.22	25.74	-----
3869	THE QUAKER OATS CO., CHICAGO, ILL. Buckeye Feed, -----	Beaver, A. F. Grine, -----	9.85	16.94	15.50
4426	Big Q Dairy Ration,* -----	Biglerville, Biglerville Warehouse Co.	8.75	23.94	21.00
3840	Big Q Dairy Ration,* -----	New Kensington, J. A. Hawk.	10.26	22.50	21.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et. 5.65	Per et. 5.00	Per et. 9.80	Per et. 14.00	\$ 2 60	Oil meal, cottonseed meal, wheat bran with mill run of screenings, corn gluten feed, cocoanut oil meal, pea meal, corn distillers' grains, brewers' dried grains, ground barley, wheat middlings, hominy meal, corn germ meal, buckwheat middlings, corn meal and salt.	Linseed oil meal, hominy meal, cottonseed meal, malt sprouts wheat bran with screenings, corn gluten feed, corn meal, brewers' grains, cocoanut oil meal, pea meal, corn germ meal, distillers' dried grains, ground barley, wheat middlings and salt.	4426
5.40	5.00	8.92	14.00	3 40	Oil meal, cottonseed meal, wheat bran with mill run of screenings, corn gluten feed, cocoanut oil meal, pea meal, corn distillers' grains, brewers' dried grains, ground barley, wheat middlings, hominy meal, buckwheat middlings, corn meal and salt.	Linseed oil meal, hominy meal, cottonseed meal, malt sprouts, wheat bran with screenings, corn gluten feed, corn meal, brewers' dried grains, cocoanut oil meal, distillers' dried grains ground barley, wheat middlings and salt.	4552
5.74	-----	10.53	-----	3 39			
5.56	4.50	7.89	8.50	2 25	Wheat mixed feed with ground screenings not exceeding mill run and rye shorts.	As certified, -----	3869
5.20	6.50	10.97	10.50	65 00	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, by-product from manufacture of hominy and corn meal by-degerminator process with partial extraction of oil, white middlings and wheat bran with ground screenings not exceeding mill run, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	4436
4.97	6.00	9.81	10.50	64 00	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, by-product from manufacture of hominy and corn meal by-degerminator process with partial extraction of oil, white middlings and wheat bran with ground screenings not exceeding mill run, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	3840

TABLE IV.—ANALYSES OF SAMPLES OF

Chemists' number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4609	Big Q Dairy Ration,* -----	Monongahela City, James B. Hayward & Son.	Per ct. 8.99	Per ct. 23.94	Per ct. 24.00
3779	Big Q Dairy Ration,* -----	Greensburg, Hudson & Kuhns.	8.53	23.31	21.00
4138	Big Q Dairy Ration,* -----	Bangor, S. E. Merkle & Co.	8.50	22.06	21.00
3903	Big Q Dairy Ration,* -----	Carlisle, L. L. Rice, -----	8.58	22.75	21.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
5.23	6.00	10.37	10.50	3 25	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, old process linseed oil meal, hominy feed, yellow hominy feed, white middlings and wheat bran with ground screenings not exceeding mill run, oat meal, mill by-product, (oat middlings, oat hulls, oat shorts) and 1% salt.	As certified, -----	4609
5.11	6.00	11.29	10.50	2 80	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, by-product from manufacture of hominy and corn meal by-degerminator process with partial extraction of oil, white middlings and wheat bran with ground screenings not exceeding mill run, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and 1% salt.	As certified, -----	3779
5.55	6.00	10.81	10.50	60 00	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, by-product from manufacture of hominy and corn meal by-degerminator process with partial extraction of oil, white middlings and wheat bran with ground screenings not exceeding mill run, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and 1% salt.	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, wheat middlings and wheat bran with ground screenings, oat middlings, oat hulls, oat shorts, palm oil meal and salt.	41 <sup>38</sup>
6.91	6.00	10.54	10.50	58 50	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, by-product from manufacture of hominy and corn meal by-degerminator process with partial extraction of oil, white middlings and wheat bran with ground screenings not exceeding mill run, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and 1% salt.	As certified, -----	8903

TABLE IV.—ANALYSES OF SAMPLES OF

Chemists' number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4304	Big Q Dairy Ration,* -----	Allen town, The George B. Shelly Estate.	Per ct. 9.78	Per ct. 23.13	Per ct. 21.00
4510	Big Q Dairy Ration,* -----	Clarion, A. C. Snyder & Son.	9.67	23.38	21.00
4497	Big Q Dairy Ration,* -----	Laceyville, A. L. Vanderwort.	9.16	23.63	21.00
4617	Big Q Dairy Ration,* -----	California, J. A. Williams,	8.87	24.25	24.00
Average, -----			9.10	23.29	-----
3893	RALSTON PURINA CO., ST. LOUIS, MO. Protena Dairy Feed, -----	Mechanicsburg. M. C. Dietz & Son.	9.01	15.81	16.50

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber. Guaranteed. Found.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.			
Per ct. 4.49	Per ct. 6.00	Per ct. 10.45	Per ct. 10.50	Price per ton or cwt. 3 25			
					Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, hominy feed, yellow hominy feed, white middlings and wheat bran with ground screenings not exceeding mill run, oat meal, mill by-product, (oat middlings, oat hulls, oat shorts) and 1% salt.	As certified, -----	4304
4.50	6.00	10.15	10.50	3 60	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, hominy feed, yellow hominy feed, white middlings and wheat bran with ground screenings not exceeding mill run, oat meal, mill by-product, (oat middlings, oat hulls, oat shorts) and 1% salt.	As certified, -----	4510
4.80	6.00	10.40	10.50	3 20	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, linseed oil meal, by-product from manufacture of hominy and corn meal by-degerminator process with partial extraction of oil, white middlings and wheat bran with ground screenings not exceeding mill run, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and 1% salt.	As certified, -----	4497
4.98	6.00	9.25	10.50	3 20	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, old process linseed oil meal, hominy feed, yellow hominy feed, white middlings and wheat bran with ground screenings not exceeding mill run, oat meal, mill by-product, (oat middlings, oat hulls, oat shorts) and 1% salt.	As certified, -----	4617
5.18	-----	10.40	-----	63 35			
3.33	3.50	13.70	12.00	46 00	Cottonseed meal, brewers' dried grains, clipped oat by-product, ground wheat screenings and 1% salt.	Cottonseed meal, brewers' dried grains, oat middlings, oat hulls, oat shorts, ground wheat screenings and salt.	3893

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3723	SMITH, PARRY & CO., MILWAUKEE, WIS. Vitex Dairy Feed, -----	Wilkinsburg, Johnston & Smith.	Per ct. 9.14	Per ct. 24.69	Per ct. 24.00
4171	THE SUGARINE CO., PEORIA, ILL. Sucos Dairy Feed, -----	Wellsboro, Equity Co-Operative Exchange.	9.75	28.75	25.00
3657	THE UBIKO MILLING CO., CINCINNATI, OHIO. Union Grains, Biles Ready Dairy Ration.	Sunbury, Blank & Gottshall.	7.78	26.00	24.00
3827	Union Grains, Biles Ready Dairy Ration.	Swatara, John B. Curry Estate.	8.17	25.44	24.00
3813	Union Grains, Biles Ready Dairy Ration.	Harrisburg, Hoffer & Garman.	8.13	24.56	24.00
3681	Union Grains, Biles Ready Dairy Ration.	Bedford, H. H. Lysinger & Son.	8.29	25.50	24.00
3859	Union Grains, Biles Ready Dairy Ration.	Beaver Falls, M. W. McCandless.	8.77	24.81	24.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et.	Per et.	Per et.	Per et.	\$ 3.25	Distillers' grains (mainly from corn), brewers' dried grains, corn gluten feed, corn gluten meal, hominy feed, linseed oil meal, wheat bran, cottonseed meal, malt sprouts, corn oil meal and salt.	As certified, -----	3723
5.77	8.00	11.91	11.00				
4.29	8.00	11.92	16.00	3.00	Corn gluten feed, clipped oat by-product, corn distillers' dried grains and solubles, cottonseed meal, palm kernel meal, calcium carbonate and salt.	Corn gluten feed, oat middlings, oat hulls, oat shorts, corn distillers' dried grains and solubles, cottonseed meal, palm kernel meal, calcium carbonate and salt.	4171
7.30	7.00	10.88	10.00	3.00	Fourex distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, gluten feed, brewers' dried grains, barley malt sprouts and $\frac{1}{2}$ of 1% fine table salt.	As certified, -----	3657
7.07	7.00	9.76	10.00	3.20	Fourex distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, gluten feed, brewers' dried grains, barley malt sprouts and $\frac{1}{2}$ of 1% fine table salt.	As certified, -----	3827
6.27	7.00	10.07	9.00	3.00	Fourex distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{1}{2}$ of 1% fine table salt.	As certified, -----	3813
6.56	7.00	10.86	10.00	3.10	Fourex distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, gluten feed, brewers' dried grains, barley malt sprouts and $\frac{1}{2}$ of 1% fine table salt.	As certified, -----	3681
6.13	7.00	9.72	10.00	3.20	Fourex distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, gluten feed, brewers' dried grains, barley malt sprouts and $\frac{1}{2}$ of 1% fine table salt.	As certified, -----	3859

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3762	Union Grains, Biles Ready Dairy Ration.	Greensburg, McFarland Supply Co.	Per ct. 9.84	Per ct. 25.00	Per ct. 24.00
4362	Union Grains, Biles Ready Dairy Ration.	Ridgway, Smith Brothers Co.	9.06	24.56	24.00
4384	WESTERN GRAIN PRODUCTS CO., HAMMOND, IND. Calumet Dairy Feed, -----	Average, -----	8.57	25.12	-----
4106	J. M. WYCKOFF, EAST STROUDSBURG, PA. Beet Pulp Dairy Feed, -----	Tyrone, Tyrone Milling Co.	9.15	21.25	20.00
4105	Dairy Feed, -----	East Stroudsburg, J. M. Wyckoff.	8.95	22.13	18.00
3854	PROPRIETARY DAIRY FEEDS WITH MOLASSES. ALFOCORN MILLING CO., EAST ST. LOUIS, ILL. Alfocorn Dairy Feed, -----	Beaver Falls, J. G. Allen,--	10.02	16.88	15.00
3853	Full Pail Dairy Feed, -----	Beaver Falls, J. G. Allen,--	9.47	28.31	25.00
			12.73	14.68	16.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
6.17		7.00	9.62	10.00	3 25	Fourex distillers' dried grains, choice cotton-seed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, gluten feed, brewers' dried grains, barley malt sprouts and $\frac{1}{2}$ of 1% fine table salt.	As certified, ----- 3762
5.67	5.00	10.85		10.00	3 90	Fourex distillers' dried grains, choice cotton seed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, gluten feed, brewers' dried grains, barley malt sprouts and $\frac{1}{2}$ of 1% fine table salt.	As certified, ----- 4362
6.45		10.25			3 24		
5.65	4.60	12.52	14.80		3 25	Cottonseed meal, gluten feed, brewers' dried grains, bran, ground corn, ground re-cleaned wheat screenings, ground clipped oat by-product and salt	As certified, ----- 4384
5.12	3.00	10.17	14.00		3 00	Cottonseed meal, gluten, distillers' grains, beet pulp, dried brewers' grains, wheat middlings, corn feed meal and salt 1%.	Cottonseed meal, corn gluten feed, distillers' dried grains, beet pulp, brewers' dried grains, wheat middlings, corn feed meal, buckwheat middlings and salt. 4106
5.04	3.00	7.20		9.00	3 00	Cottonseed meal, shelled and ear corn, dried brewers' grains, old process oil meal, wheat bran and middlings and gluten.	As certified, ----- 4105
5.35	4.50	10.34		15.00	3 00	Cottonseed meal, distillers' dried grains, corn gluten feed, brewers' dried grains, alfalfa meal and molasses.	As certified, ----- 3854
2.98	3.00	13.51		15.00	2 75	Cottonseed meal, distillers' dried grains, clipped oat by-product, ground and bolted grain and flaxseed screenings, brewers' dried grains, alfalfa, corn gluten feed and molasses.	Cottonseed meal, distillers' dried grains, clipped oat by-product, ground and bolted grain and flaxseed screenings, brewers' dried grains, alfalfa meal, corn gluten feed, molasses and small whole weed seeds. 3853

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4592	AMERICAN MILLING CO., PEORIA, ILL. Ameo Dairy Feed, -----	Sewickley, J. F. Malone, --	Per et. 10.49	Per et. 31.01	Per et. 25.00
3773	Suerene Dairy Feed, -----	Irwin, H. Altman & Son,--	10.23	17.98	16.50
3831	Suerene Dairy Feed, -----	Swatara, John B. Curry Estate.	8.96	18.50	16.50
3976	Suerene Dairy Feed, -----	Swineford, Franklin Milling Co.	8.44	21.32	16.50
4611	Suerene Dairy Feed, -----	Monongahela City, D. E. Gamble.	12.49	19.87	16.50
3639	Suerene Dairy Feed, -----	Huntingdon, L. S. Goodman & Sons.	13.18	16.77	16.50
4399	Suerene Dairy Feed, -----	Coatesville, Handwork Brothers.	10.00	18.63	16.56
3720	Suerene Dairy Feed, -----	McKeesport, Keystone Commercial Co.	8.29	20.94	16.50

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et. 6.09	Per et. 5.00	Per et. 12.28	Per et. 16.00	\$ 3.75	Molasses, clipped oat by-product, corn distillers' dried grains, linseed meal, cottonseed meal, cocoanut oil meal and salt.	Corn distillers' dried grains, linseed oil meal, cottonseed meal, oat middlings, oat hulls, oat shorts, molasses and salt.	4592
4.02	3.50	13.73	14.00	2.60	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-products, distillers' dried grains and solubles, salt, palm kernel meal and calcium carbonate.	As certified, -----	3773
4.03	3.50	14.26	14.00	2.40	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	Molasses cottonseed meal, corn gluten feed, ground and bolted grain screenings, oat middlings, oat hulls, oat shorts, distillers' dried grains and solubles, palm kernel oil meal and salt.	3831
4.17	3.50	13.38	14.00	2.50	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	3976
4.67	3.50	14.72	14.00	2.50	Molasses, cottonseed meal, ground and bolted grain screenings, clipped oat by-product, corn distillers' dried grains and solubles, corn germ meal, cocoanut meal, calcium carbonate and salt.	As certified, -----	4611
4.01	3.50	12.69	14.00	2.40	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles, palm kernel meal and calcium carbonate and salt.	As certified, -----	3639
5.25	3.50	11.30	14.00	2.65	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles, palm kernel meal and calcium carbonate and salt.	Molasses, cottonseed meal, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles, cocoanut oil meal, calcium carbonate and salt.	4399
4.24	3.50	13.39	14.00	2.50	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	3720

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4543	Suerene Dairy Feed, -----	Jeanette, Keystone Supply Co.	Per et. 12.15	Per et. 17.74	Per et. 16.50
4348	Suerene Dairy Feed, -----	Toughkenamon, H. A. Mendenhall.	10.58	20.94	16.50
4305	Suerene Dairy Feed, -----	Allentown, The George B. Shelly Estate.	10.60	21.44	16.50
4566	Suerene Dairy Feed, -----	Indiana, St. Clair, Rinn & Co.	10.82	19.96	16.50
3746	ARCADY FARMS MILLING CO., RONDOUT, ILL. Arcady Dairy Feed, -----	Average, -----	10.53	19.46	-----
		Doylestown, Henry S. Beidler.	9.34	16.81	16.00
4247	Already Dairy Feed, -----	Chambersburg, J. H. Smith & Sons.	10.80	17.25	16.00
		Average, -----	10.07	17.03	-----

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et.	Per et.	Per et.	Per et.	\$ 58.00	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' grains and solubles, salt, palm kernel meal and calcium carbonate.	Molasses, cottonseed meal, ground and bolted grain screenings, clipped oat by-product, distillers' grains and solubles, coconut oil meal, brewers' dried grains, calcium carbonate, salt and small amount small whole weed seeds.	4543
5.12	3.50	11.37	14.00				
4.80	3.50	10.42	14.00	49.00	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' grains and solubles, salt, palm kernel meal and calcium carbonate.	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles, palm kernel meal, calcium carbonate, brewers' dried grains, salt and small amount small whole weed seeds.	4348
5.10	3.50	11.15	14.00	2.50	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles, salt, palm kernel meal and calcium carbonate.	As certified, -----	4305
4.84	3.50	9.98	14.00	2.65	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped distillers' dried grains and solubles, salt, palm kernel meal and calcium carbonate.	As certified, -----	4566
4.57	-----	12.39	-----	51.00			
4.54	3.50	13.66	15.00	52.00	Malt sprouts, dried brewers' grains, cottonseed meal, molasses, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, salt and corn gluten.	As certified, -----	3746
4.07	3.50	11.50	15.00	2.50	Malt sprouts, dried brewers' grains, cottonseed meal, molasses, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, salt and corn gluten.	Malt sprouts, dried brewers' grains, cottonseed meal, molasses, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, cocoa shell meal, corn gluten feed and salt.	4247
4.31	-----	12.58	-----	51.00			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4034	THE J. E. BARTLETT CO., JACKSON, MICH. *Farmer Brand Molasses Ration, ----	Titusville, Grange Milling Co.	Per et. 15.71	Per et. 15.99	Per et. 16.00
3645	BLANK & GOTTSNALL, SUNBURY, PA. B. & G. Dairy Feed, -----	Sunbury, Blank & Gottshall.	9.35	16.13	22.00
3910	CLOVER LEAF MILLING CO., BUFFALO, N. Y. Clover Leaf Mills Dairy Feed, -----	Quakertown, S. S. Detweiler.	12.25	11.76	13.50
3898	Clover Leaf Mills Dairy Feed, -----	Mechanicsburg, M. C. Dietz & Son.	8.85	17.38	13.50
3935	Clover Leaf Mills Dairy Feed, -----	Colmar, W. H. D. Godshall.	8.65	15.06	13.50
3974	Clover Leaf Mills Dairy Feed, -----	Mifflin, W. H. Manbeck & Co.	10.35	15.00	13.50
4342	Clover Leaf Mills Dairy Feed, -----	Oxford, Oxford Grain & Hay Co.	12.56	16.00	13.50

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et.	Per et.	Per et.	Per et.	\$			
4.90	5.50	10.95	16.00	2 50	Molasses, cottonseed meal, ground screenings, oat meal by-products, dried distillers' grains and $\frac{1}{2}$ of 1% salt.	Molasses, cottonseed meal, ground screenings, oat middlings, oat hulls, oat shorts, velvet bean and pod meal, salt and small amount small whole weed seeds.	4034
5.15	6.00	9.79	9.00	2 65	Beet pulp, corn bran, oats chop, buckwheat middlings, gluten feed, wheat bran, dried brewers' grains, cotton seed meal, badger evergreen, linseed meal and salt.	Beet pulp, corn bran, oats chop, buckwheat middlings, corn gluten feed, wheat bran, dried brewers' grains, cottonseed meal, alfalfa meal, molasses, linseed oil meal and salt.	3645
2.83	3.50	11.86	15.00	2 35	Corn distillers' dried grains, cottonseed meal, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	Corn distillers' dried grains, cottonseed meal, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, clipped oat by-product, molasses, salt and small amount small whole weed seeds.	3910
6.02	3.50	12.30	15.00	44 00	Corn distillers' dried grains, cottonseed meal, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	Corn distillers' dried grains, cottonseed meal, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, molasses, salt and small amount small whole weed seeds.	3898
4.97	3.50	14.54	15.00	2 65	Corn distillers' dried grains, cottonseed meal, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3925
4.70	4.00	15.33	15.00	46 00	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and salt.	3974
5.84	3.50	12.44	15.00	49 00	Cottonseed meal, cleaned ground and bolted grain screenings, ground and bolted clipped oat by-product, cocoa shell meal, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, cleaned ground and bolted grain screenings, ground and bolted clipped by-product, cocoa shell meal, molasses, distillers' dried grains, malted barley, malt sprouts, salt and small amount small whole weed seeds.	4342

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3955	Clover Leaf Mills Dairy Feed, -----	Hatfield, Estate of George S. Snyder.	Per et. 11.29	Per et. 14.06	Per et. 13.50
3902	Clover Leaf Mills Dairy Feed, -----	Carlisle, W. S. Stuart, -----	9.87	16.38	16.50
3989	Clover Leaf Mills Dairy Feed, -----	Wycombe, Albert J. Thompson.	8.85	15.06	13.50
4646	Clover Leaf Mills Dairy Ration, ----	Average, ----- York, Anderson Brothers & Co.	10.33	15.09	-----
3995	Clover Leaf Mills Dairy Ration, ----	Telford, J. S. Kulp & Co., -----	10.77	19.06	16.00
4413	Peerless Milk Ration, -----	Average, ----- Oil city, Enterprise Milling Co.	10.14	20.31	-----
			11.78	22.80	20.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat, Found. Per ct. 4.88	Fiber.		Price per ton or ewt. \$ 2.40	Certified Composition.	Identified by Micro- scopical Examination.	Chemist's number.
	Guaranteed. Per ct. 3.50	Found. Per ct. 12.99				
5.77	3.50	15.75	15.00	47.00	Cottonseed meal, cleaned ground and bolted grain screenings, ground and bolted clipped oat by-product, cocoa shell meal, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, cleaned ground and bolted grain screenings, ground and bolted clipped oat by-product, cocoa shell meal, molasses, salt and small amount small whole weed seeds. 3955
4.11	3.50	16.20	15.00	2.45	Corn distillers' dried grains, cottonseed meal, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	Corn distillers' dried grains, cottonseed meal, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, clipped oat by-product, molasses, salt and small amount small whole weed seeds. 3902
4.52	-----	13.92	-----	47.88	Corn distillers' dried grains, cottonseed meal, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified, ----- 3989
5.48	4.00	11.75	15.00	56.00	Cottonseed meal, pure old process cocoanut meal, linseed meal, cleaned ground and bolted grain screenings, cocoa shell meal, ground and bolted clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, old process cocoanut oil meal, linseed oil meal, cleaned ground and bolted grain screenings, cocoa shell meal, ground and bolted clipped oat by-product, molasses, salt and small amount small whole weed seeds. 4646
5.06	3.50	13.60	15.00	2.60	Cottonseed meal, corn gluten meal, malt sprouts, brewers' dried grains, cleaned ground and bolted grain screenings, cocoa shell meal, ground and bolted clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified, ----- 3995
5.27	-----	12.67	-----	54.00	Cottonseed meal, pure old process cocoanut meal, linseed meal, brewers' dried grains, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, old process cocoanut oil meal, linseed oil meal, brewers' dried grains, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, cocoa shell meal, malt sprouts, malted barley, molasses and salt. 4413
5.45	5.00	11.38	12.00	2.80		

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
4174	Peerless Milk Ration, -----	Wellsboro, Equity Co-Operative Exchange.	Per cent. 9.59	Per cent. 20.88	Per cent. 20.00
4488	Peerless Milk Ration, -----	Meshoppen, C. B. Tyler, --	10.75	21.08	20.00
4385	Peerless Milk Ration, -----	Tyrone, Tyrone Milling Co.	16.76	22.19	20.00
4353	DIXIE MILLS CO., EAST ST. LOUIS, ILL. Diamond Dairy Feed, -----	Average, -----	10.76	21.61	-----
		Brandywine Summit, R. C. Fairlamb & Sons.	11.79	16.88	16.50
4328	Dixie Dairy Feed, -----	Washington, J. K. Lawson.	9.62	17.63	16.50
3783	Dixie Dairy Feed, -----	Butler, Thompson & Glenn.	9.38	16.75	16.50
		Average, -----	9.50	17.19	-----

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et 5.74	Per et 5.00	Per ct. 10.51	Per et. 12.00	\$ 2.50	Cottonseed meal, pure old process linseed meal, cocoanut meal, brewers' dried grains, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, old process linseed oil meal, cocoanut oil meal, brewers' dried grains, ground and bolted, clipped oat by-product, cleaned ground and bolted grain screenings, molasses, salt and small amount small whole weed seeds.	4174
4.79	5.00	14.69	12.00	2.85	Cottonseed meal, pure old process linseed meal, cocoanut meal, brewers' dried grains, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, old process linseed oil meal, brewers' dried grains, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, malt sprouts, cocoa hulls, buckwheat hulls, molasses, salt and small amount small whole weed seeds.	4488
4.98	5.00	10.12	12.00	3.00	Cottonseed meal, pure old process linseed meal, cocoanut meal, brewers' dried grains, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, old process linseed oil meal, cocoanut oil meal, brewers' dried grains, ground and bolted, clipped oat by-product, cleaned ground and bolted grain screenings, cocoa shell meal, molasses, salt and trace small whole weed seeds.	4383
5.24	-----	11.67	-----	2.79			
5.23	3.50	11.55	12.00	51.00	Cottonseed meal, clipped oat by-product, molasses and ground flaxseed screenings.	Cottonseed meal, oat middlings, oat hulls, oat shorts, corn bran and corn siftings, molasses, ground flaxseed screenings and small amount small whole weed seeds.	4353
3.15	3.50	18.10	12.00	3.00	Ground alfalfa, cottonseed meal, corn feed meal, ground flaxseed screenings, clipped oat by-product and molasses.	As certified, -----	4328
4.09	3.50	13.14	12.00	2.50	Ground alfalfa, cottonseed meal, corn feed meal, ground flaxseed screenings, clipped oat by-product and molasses.	As certified, -----	3783
3.62	-----	15.62	-----	2.75			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4468	JONAS F. EBY & SON, LANCAS-TER, PA. Crystalloid Dairy Feed, -----	Bellefonte, G. M. Gamble,	Per ct. 7.89	Per ct. 19.88	Per ct. 16.50
4374	Crystalloid Dairy Feed, -----	Spruce Creek, The Spruce Creek Milling Co.	11.57	17.19	16.50
		Average, -----	9.73	18.29	-----
4676	JOHN W. ESHELMAN, LANCAS-TER, PA. Home Made Dairy Feed, -----	Lancaster, John W. Eshelman.	9.32	24.69	20.00
4090	FLORY MILLING CO., BANGOR, PA. Globe Cow Feed, -----	Bangor, Flory Milling Co.,	9.28	20.25	20.30
4495	GLOBE ELEVATOR CO., BUF-FALO, N. Y. Anchor Dairy Feed, -----	Meshoppen, Dickson Mill & Grain Co.	14.91	13.33	13.5-15
3965	Anchor Dairy Feed, -----	Punxsutawney, Jefferson Flour & Feed Co.	16.97	12.08	-----
3794	Anehor Dairy Feed, -----	Butler, H. J. Klingler & Co.	12.29	13.10	13.50
4631	THE GOLDSBORO PURE FEED Co., GOLDSBORO, PA. Gold-O Pure Cane Molasses Concentrated Dairy Feed.	Average, ----- Goldsboro, The Goldsboro Pure Feed Co.	14.72 8.87	12.84 20.88	----- 20.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
4.30	3.50	13.52	14.00	56 00	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles, palm kernel oil meal and salt.	4468
4.38	3.50	12.67	14.00	2 80	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles, cocoanut oil cake meal, brewers' dried grains, and salt.	4374
4.34	-----	13.09	-----	56 00			
4.60	6.00	8.30	11.00	58 00	Gluten feed, linseed meal, ground broken grains of cereal plant separated from wheat, oats, barley, distillers' grains, cottonseed meal, wheat, molasses and salt.	As certified, -----	4676
4.96	5.00	8.94	10.00	3 00	Corn meal, wheat bran, wheat middlings, molasses feed, gluten meal, oil meal, cottonseed meal, alfalfa meal, brewers' grains and 1% salt.	Corn meal, wheat bran, wheat middlings, molasses, corn gluten meal, linseed oil meal, cottonseed meal, alfalfa meal, brewers' dried grains and salt.	4000
2.57	3.00	8.48	15.00	2 35	Cottonseed meal, corn gluten feed, linseed oil meal, ground grain screenings, cane molasses and salt $\frac{3}{4}$ of 1%.	Cottonseed meal, corn gluten feed, linseed oil meal, ground grain screenings, cane molasses, salt and small amount small whole weed seeds.	4495
3.38	-----	8.06	-----	2 75	Cottonseed meal, corn gluten feed, linseed oil meal, ground grain screenings, cane molasses and salt $\frac{3}{4}$ of 1%.	Cottonseed meal, corn gluten feed, linseed oil meal, ground grain screenings, cane molasses, clipped oat by-product, salt and small amount small whole weed seeds.	3965
5.28	3.00	9.99	15.00	2 20	Cottonseed meal, corn gluten feed, linseed oil meal, malt sprouts, ground grain screenings, molasses and salt $\frac{3}{4}$ of 1%.	As certified, -----	3794
3.74	-----	8.84	-----	2 43			
4.36	5.50	11.22	12.00	2 70	Cottenseed meal, new process linseed meal, gluten, wheat bran, brewers' grains, malt sprouts, wheat middlings, pure cane molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	4631

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4472	June Bug Cane Molasses Dairy Feed,	Landisville, J. C. Snavely & Sons.	Per et. 9.83	Per et. 17.19	Per et. 18.00
4492	GRAIN BELT MILLS CO., ST. JOSEPH, MO. Red D. Dairy Feed, -----	Knoxville, Deerfield Milling Co.	11.44	16.09	16.00
4616	Red D. Dairy Feed, -----	California, J. A. Williams.	9.56	20.38	20.00
4500	HALES & EDWARDS CO., CHICAGO, ILL. Gold Flake Dairy Feed, -----	Average, ----- Sewickley, J. F. Malone, --	10.50 12.16	18.23 19.97	----- 16.00
3857	DWIGHT E. HAMLIN, PITTSBURGH, PA. H. & S. Alfalfa Feed, -----	Beaver Falls, M. W. McCandless.	16.62	11.38	14.00
3618	H. & S. Alfalfa Feed for Milk Cows,	South Fork, J. E. Crisman.	13.89	21.07	20-25
4502	H. & S. Alfalfa Feed for Milk Cows,	Blairsville, J. A. McKelvey,	12.92	24.58	20-25
4409	THE HO COMPANY, BUFFALO, N. Y. Milk Feed with Molasses, -----	Average, ----- Oil City, Clyde D. Duffey,	13.40 9.64	22.82 17.38	----- 14.00
4551	Milk Feed with Molasses, -----	Corry, Miller & Parsons,--	8.46	16.06	14.00
		Average, -----	9.05	16.72	-----

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et.	Per ct.	Per et.	Per et.	2 50	Brewers' grains, malt sprouts, ground grain screenings meal, wheat middlings, oil meal, wheat bran, oat clippings, cottonseed meal, gluten, dried yeast grains, corn distillers' grains, pure cane molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	4462
3.95	4.00	14.30	12.00				
4.43	4.00	11.70	15.00	2 50	Cottonseed meal, alfalfa meal, ground wheat screenings, molasses and 1% salt.	Cottonseed meal, alfalfa meal, ground wheat screenings, molasses, salt and small amount small whole weed seeds.	4192
4.73	4.00	10.80	14.00	3 00	Cottonseed meal, linseed meal, alfalfa meal, ground grain screenings, molasses, corn feed meal and $\frac{1}{2}$ of 1% salt.	As certified, -----	4616
4.58	-----	11.25	-----	2 75			
4.09	3.50	9.80	15.00	3 00	Cottonseed meal, corn gluten feed, linseed oil meal, molasses, clipped oat by-product, ground and bolted wheat barley and Kaf-fir screenings and salt.	As certified, -----	4596
1.93	3.50	9.66	16.00	3 40	Alfalfa, cane syrup and dried grains.	Alfalfa meal, brewers' dried grains and cane syrup.	3857
5.51	3.50	15.50	16.00	2 75	Alfalfa, cottonseed meal, pure cane molasses, brewers' and distillers' dried grains and $\frac{1}{2}$ of 1% salt.	As certified, -----	3618
4.76	3.50	10.11	16.00	3 25	Alfalfa, cottonseed meal, pure cane molasses, brewers' and distillers' dried grains and $\frac{1}{2}$ of 1% salt.	Alfalfa, linseed oil meal, pure cane molasses, brewers' and distillers' dried grains and salt.	4502
5.14	-----	12.85	-----	3 00			
3.43	4.00	13.57	12.00	3 40	Oat hulls, wheat midds., cottonseed meal, oat shorts, corn gluten feed, ground corn, ground oats, ground grain screenings, molasses, clipped oat by-product, linseed oil meal and $\frac{1}{2}$ of 1% salt.	As certified, -----	4409
3.75	4.00	13.10	12.00	2 50	Wheat midds., cottonseed meal, oat shorts, corn gluten feed, ground corn, ground oats, ground grain screenings, molasses, clipped oat by-product, linseed oil meal and $\frac{1}{2}$ of 1% salt.	Wheat middlings, cottonseed meal, corn gluten feed, ground corn, ground oats, ground grain screenings, molasses, oat shorts, oat middlings, oat hulls, linseed oil meal and salt.	4551
3.59	-----	13.33	-----	2 95			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found	Guaranteed.
4594	INTERNATIONAL SUGAR FEED CO., MINNEAPOLIS, MINN. International Climax Dairy Feed, ----	Waynesburg, Waynesburg Milling Co.	Per ct. 13.05	Per ct. 13.32	Per ct. 12.50
4101	International Climax Dairy Feed, ----	East Stroudsburg, J. M. Wyckoff.	12.95	13.17	12.50
3833	*International Planters Dairy Feed,	Average, ----- Middletown, Golden Leader Milling Co.	13.00	13.25	-----
4446	International Ready Ration, -----	Erie, Erie Milling & Sup- ply Co.	11.58	20.04	20.00
4437	International Ready Ration, -----	Hamburg, Hamburg Roller Mills.	11.31	21.55	20.00
4002	International Ready Ration, -----	Johnstown, J. H. Hersb- berger & Son.	11.07	22.00	20.00
4472	International Ready Ration, -----	Bellefonte, N. J. Hock- man.	11.30	23.13	20.00
4049	International Ready Ration, -----	Flemington, J. Harold Long Milling Co.	10.26	21.25	20.00
4202	International Ready Ration, -----	Knoxville, Union Products Co.	12.63	21.44	20.00
4593	International Ready Ration, -----	Waynesburg, Waynesburg Milling Co.	12.04	20.32	20.00
Average, -----			11.45	21.39	-----

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemists' number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$ 2.50	Cottonseed meal, molasses, ground clipped oat hy-product, ground cleaned grain screenings and salt.	As certified, -----	4594
4.47	4.00	10.93	15.00				
5.36	4.00	12.94	15.00	2.50	Cottonseed meal, molasses, ground clipped oat hy-product, ground cleaned grain screenings and salt.	Cottonseed meal, molasses, ground clipped oat hy-product, ground cleaned grain screenings, linseed oil meal, salt and small amount small whole weed seeds.	4101
4.92	-----	11.93	-----	2.50			
3.14	3.50	23.05	18.50	2.80	Cottonseed meal, ground delinted cottonseed hulls, molasses and salt.	Cottonseed meal and cottonseed hulls.	3836
5.52	5.00	9.17	15.00	60.00	Cottonseed meal, molasses, ground clipped oat hy-product, ground cleaned grain screenings, linseed oil meal, wheat bran and salt.	As certified, -----	4446
5.17	5.00	10.34	15.00	2.90	Cottonseed meal, molasses, ground clipped oat hy-product, ground cleaned grain screenings, linseed oil meal, wheat bran and salt.	Cottonseed meal, molasses, ground clipped oat hy-product, ground cleaned grain screenings, linseed oil meal, wheat bran, salt and small amount small whole weed seeds.	4437
5.61	5.00	12.17	15.00	3.00	Cottonseed meal, molasses, ground clipped oat hy-product, ground cleaned grain screenings, linseed oil meal, wheat bran and salt.	As certified, -----	4002
5.20	5.00	11.50	15.00	3.00	Cottonseed meal, molasses, ground clipped oat hy-product, ground cleaned grain screenings, linseed oil meal, wheat bran and salt.	Cottonseed meal, molasses, ground clipped oat hy-product, ground cleaned grain screenings, linseed oil meal, wheat bran, salt and small amount small whole weed seeds.	4472
5.09	5.00	12.90	14.00	3.25	Cottonseed meal, molasses, ground clipped oat hy-product, ground cleaned grain screenings, linseed oil meal, wheat bran and salt.	As certified, -----	4049
5.64	5.00	11.70	15.00	56.00	Cottonseed meal, molasses, ground clipped oat hy-product, ground cleaned grain screenings, linseed oil meal, wheat bran and salt.	As certified, -----	4202
5.72	5.00	9.53	15.00	3.25	Cottonseed meal, molasses, ground clipped oat hy-product, ground cleaned grain screenings, linseed oil meal, wheat bran and salt.	As certified, -----	4593
5.42	-----	11.04	-----	61.43			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
4518	International Special Dairy Feed,----	Skinner's Eddy, C. A. Jayne.	Per et. 9.41	Per et. 19.88	Per et. 15.00
3767	International Speeial Dairy Feed,----	Latrobe, Latrobe Feed & Supply Co.	9.93	15.00	15.00
3798	International Special Dairy Feed,----	Butler, P. J. Oesterling & Son.	11.01	14.38	15.00
3934	International Speeial Dairy Feed,----	Lansdale, A. S. Tyson & Son.	8.67	15.81	15.60
4595	International Special Dairy Feed,----	Waynesburg, Waynesburg Milling Co.	12.66	17.08	15.00
3740	International Special Dairy Feed,----	Easton, F. C. Williams,--	11.59	16.06	15.00
			Average, -----	10.54	16.36 -----
3810	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Sweet Cud Dairy Feed, -----	Harrisburg, Paxton Flour & Feed Co.	16.44	13.55	14.00
4655	Sweet Cud Dairy Feed, -----	Frankstown, J. H. Rodkey.	11.17	28.64	24.00
4689	Sweet Cud Dairy Feed, -----	Johnstown, A. F. Stutzman & Sons.	8.50	31.00	24.00
			Average, -----	12.03	24.46 -----
4856	THE LAKE SHORE ELEVATOR CO., CLEVELAND, OHIO. Hart's Special Dairy Feed, -----	Beaver Falls, M. W. McCandless.	13.18	9.29	24.00
4323	Lake Shore Dairy Feed, -----	Canonsburg, Wm. H. Dunlap, Jr.	13.92	17.42	17.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or ewt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$ 2.50	Cottonseed meal, molasses, ground clipped oat by-product, ground cleaned grain screenings and salt.	Cottonseed meal, molasses, ground clipped oat by-product, ground cleaned grain screenings, salt and small amount small whole weed seeds.	4518
5.65	4.50	13.00	14.00			As certified, -----	3767
4.50	4.50	18.88	14.00	2.50	Cottonseed meal, molasses, ground clipped oat by-product, ground cleaned grain screenings and salt.		/
4.75	4.50	15.50	15.00	2.40	Cottonseed meal, molasses, ground clipped oat by-product, ground cleaned grain screenings and salt.	Cottonseed meal, molasses, ground clipped oat by-product, ground cleaned grain screenings, salt and small amount small whole weed seeds.	3798
3.65	4.50	15.51	14.00	43.00	Cottonseed meal, molasses, ground clipped oat by-product, ground cleaned grain screenings and salt.	Cottonseed meal, molasses, ground clipped oat by-product, ground cleaned grain screenings, salt and small amount small whole weed seeds.	3934
6.31	4.50	9.77	15.00	2.60	Cottonseed meal, molasses, ground clipped oat by-product, ground cleaned grain screenings and salt.	As certified, -----	4595
3.74	4.50	17.60	14.00	2.50	Cottonseed meal, molasses, ground clipped oat by-product, ground cleaned grain screenings and salt.	Cottouseed meal, molasses, ground clipped oat by-product, ground cleaned grain screenings, salt and small amount small whole weed seeds.	3740
4.77	-----	15.04	-----	48.83			
1.29	1.25	19.44	20.00	2.75	Cottonseed meal, alfalfa, molasses and salt.	As certified, -----	2810
4.65	3.75	10.92	15.00	3.25	Cottonseed meal, alfalfa, molasses, gluten feed, brewers' dried grains and salt.	As certified, -----	4655
4.25	3.75	11.75	15.00	3.40	Cottonseed meal, alfalfa, molasses, gluten feed, brewers' dried grains and salt.	As certified, -----	4689
3.43	-----	14.03	-----	3.13			
3.05	4.50	15.45	9.00	2.90	Cottonseed meal, brewers' grains, malt sprouts, corn bran, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, brewers' dried grains, malt sprouts, corn bran, molasses, corn, oats, buckwheat hulls, ground cocoa shells and salt.	3856
2.01	3.00	15.49	11.00	55.00	Cottonseed meal, distillers' grains, malt sprouts, corn, corn bran, screenings, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, distillers' dried grains, brewers' dried grains, corn, corn bran, grain screenings, molasses and salt.	4323

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4415	Lake Shore Dairy Feed, -----	Oil City, New Model Milling Co.	Per ct. 11.76	Per ct. 12.49	Per et. 17.00
4555	Lake Shore Dairy Feed, -----	Carnegie, Richey & McFarland.	14.86	11.66	17.00
		Average, -----	13.51	13.86	-----
4395	LANCASTER MILL & ELEVATOR CO., LANCASTER, PA. Lancaster Dairy Feed, -----	Coatesville Brothers.	Handwork	11.89	15.90
4585	C. P. MATTHEWS & SONS, INC., BUFFALO, N. Y. Dairy Rations, -----	Wilkes-Barre, C. P. Matthews & Sons, Inc.		10.30	22.88
3907	THE MT. HOLLY FEED & GRAIN CO., MT. HOLLY SPRINGS, PA. Holly-O Pure Cane Molasses Dairy Feed No. 1.	Mt. Holly Springs, The Mt. Holly Feed & Grain Co.		7.70	24.13
3908	Holly-O Pure Cane Molasses Dairy Feed No. 2.	Mt. Holly Springs, The Mt. Holly Feed & Grain Co.		7.10	19.25
3660	NOWAK MILLING CORPORATION BUFFALO, N. Y. Domino Butterine Dairy Feed, -----	Myerstown, E. L. Bleistein.		13.06	16.39
					17.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per et.	Per ct.	Per et.	\$			
2.75	3.00	15.23	11.00	2.60	Cottonseed meal, distillers' grains, malt sprouts, corn, corn bran, screenings and molasses.	Cottonseed meal, distillers' dried grains, brewers' dried grains, malt sprouts, cocoa shell meal, buckwheat hulls, corn, corn bran, grain screenings and molasses.	4415
2.29	3.00	14.66	11.00	55.00	Cottonseed meal, distillers' grains, malt sprouts, corn, corn bran, screenings and molasses.	Cottonseed meal, distillers' grains, malt sprouts, corn, corn bran, grain screenings, crushed oats, cocoa shell meal, buckwheat hulls and molasses.	4055
2.35	-----	15.12	-----	54.00			
3.25	4.00	13.87	16.00	2.65	Cottonseed meal, oil cake meal, reground screenings, gluten, alfalfa, clipped oats by-products, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, linseed oil cake meal, reground grain screenings, corn gluten feed, alfalfa, oat middlings, oat hulls, oat shorts, molasses and salt.	4395
3.95	4.50	9.67	10.00	2.80	Alfalfa, linseed, gluten, corn meal and molasses.	Malt sprouts, brewers' dried grains, corn distillers' dried grains, cottonseed meal, dried milk, charred corn, alfalfa meal, linseed oil meal, corn gluten feed, corn meal and molasses.	4585
6.85	5.00	13.15	14.00	67.00	Cottonseed meal, gluten feed, linseed meal, wheat bran, wheat middlings, ground corn, brewers' grains, malt sprouts, dried yeast grains, pure cane molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3907
5.96	4.50	15.28	14.00	62.00	Brewers' grains, malt sprouts, dried yeast grains, corn meal, wheat middlings, wheat bran, cottonseed meal, gluten feed, pure cane molasses and $\frac{1}{2}$ of 1% salt.	Brewers' dried grains, malt sprouts, dried yeast grains, corn meal, wheat middlings, wheat bran, cottonseed meal, corn gluten feed, cane molasses, salt, small amount ground screenings and small amount small whole weed seeds.	3908
3.89	3.50	13.39	12.00	2.40	Cocoanut oil meal, cottonseed meal, malt sprouts, brewers' dried grains, clipped oat by-product, ground and bolted grain screenings, molasses and $\frac{3}{4}$ of 1% salt.	As certified, -----	3660

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3835	Domino Butterine Dairy Feed, -----	Annville, Newgard & Tice,	Per cent. 11.59	Per cent. 17.04	Per cent. 17.00
4634	Domino Butterine Dairy Feed, -----	York, H. H. Smyser, ---	10.66	23.61	17.00
2973	Domino Butterine Dairy Feed, -----	Lewistown, Spanogle-Yeager Milling Co.	10.22	23.00	17.00
4119	OMAHA ALFALFA MILLING CO., OMAHA, NEBR. Cream Alfalfa Dairy Feed No. 1,-----	Average, ----- South Brownsville, C. D. Chamberlain.	11.38 14.64	20.01 19.86	----- 20.00
3699	J. E. PRITTS, SCOTTDALE, PA. *Pritts' Alfalfa Cow Feed, -----	Scottdale, J. E. Pritts, --	10.98	23.94	20-24
4435	THE QUAKER OATS CO., CHICAGO, ILL. *Quaker Dairy Feed with Molasses, -----	Biglerville, Biglerville Warehouse Co.	11.93	16.67	16.00
4431	*Quaker Dairy Feed with Molasses, -----	New Oxford, J. H. Duttera.	11.96	18.61	16.00
4334	*Quaker Dairy Feed with Molasses, -----	New Castle, Fisher Feed & Coal Co.	10.07	17.69	16.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found. Per ct.	Fiber. Guaranteed. Per ct.	Fiber. Found. Per ct.	Fiber. Guaranteed. Per ct.	Price per ton or cwt. \$	Certified Composition.	Identified by Microscopic Examination.	Chemist's number.
5.55	3.50	11.52	14.00	54.00	Cocoanut oil meal, cottonseed meal, malt sprouts, brewers' dried grains, linseed oil meal, clipped oat by-product, ground and bolted grain screenings, molasses and $\frac{3}{4}$ of 1% salt.	As certified, -----	3835
5.77	3.50	10.29	14.00	2.70	Cocoanut oil meal, cottonseed meal, malt sprouts, brewers' dried grains, linseed oil meal, clipped oat by-product, ground and bolted grain screenings, cocoa shell meal, molasses and $\frac{3}{4}$ of 1% salt.	Cottonseed meal, malt sprouts, brewers' dried grains, linseed oil meal, clipped oat by-product, ground and bolted grain screenings, cocoa shell meal, molasses and salt.	4634
3.47	3.50	11.83	12.00	2.50	Cocoanut oil meal, cottonseed meal, malt sprouts, brewers' dried grains, clipped oat by-product, ground and bolted grain screenings, molasses and $\frac{3}{4}$ of 1% salt.	As certified, -----	3973
4.67	-----	11.75	-----	51.50	Cottonseed meal, bran, corn, alfalfa meal and molasses.	As certified, -----	4119
3.15	3.00	11.40	18.00	3.10	Wheat bran, wheat middlings, corn, alfalfa meal, molasses, oil meal and cottonseed meal.	Wheat bran, wheat middlings, corn, alfalfa meal, molasses, linseed oil meal and cottonseed meal.	3699
2.68	5.50	13.52	16.00	2.50	Molasses, corn distillers' dried grains and solubles, cottonseed meal, palm kernel meal, oil meal, calcium phosphate, oat meal mill by-product (oat middlings, oat hulls, oat shorts), ground grain screenings and $\frac{3}{4}$ of 1% salt.	Cottonseed meal, palm kernel meal, oat middlings, oat hulls, oat shorts, ground grain screenings, molasses, calcium phosphate, salt and small amount small whole weed seeds.	4431
5.40	5.50	12.37	16.00	2.25	Molasses, corn distillers' grains and solubles, cottonseed meal, ground grain screenings, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), Tri-calcium phosphate, palm kernel oil meal and $\frac{3}{4}$ of 1% salt.	Cottonseed meal, corn distillers' dried grains and solubles, palm kernel oil meal, oat middlings, oat hulls, oat shorts, ground grain screenings, velvet bean and pod meal, molasses, calcium phosphate, salt and small amount small whole weed seeds. Damaged and moldy.	4334

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3768	*Quaker Dairy Feed with Molasses,	Latrobe, Golds Flour & Feed Store.	Per et. 7.91	Per et. 18.63	Per et. 16.00
3793	*Quaker Dairy Feed with Molasses,	Butler, H. J. Klingler & Co.	7.99	16.93	16.00
4501	*Quaker Dairy Feed with Molasses,	Blairsville, J. A. McKelvey.	14.33	15.81	16.00
4141	*Quaker Dairy Feed with Molasses,	Bangor, S. E. Merkel & Co.	11.53	16.68	16.00
4076	*Quaker Dairy Feed with Molasses,	Sharon, Sharon Flour & Feed Milling Co.	14.79	16.64	16.00
4506	*Quaker Dairy Feed with Molasses,	Clarjon, A. C. Snyder & Son.	12.60	17.11	16.00
4346	RALSTON PURINA COMPANY, ST. LOUIS, MO.	Average, -----	11.45	16.97	-----
	Protena Dairy Feed, -----	Downingtown, H. C. Clarkson.	9.80	16.13	16.50
3819	Protena Dairy Feed, -----	Penbrook, O. S. Ebersole.	9.38	15.06	16.50
		Average, -----	9.59	15.60	-----

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or ewt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$ 2.75	Molasses, corn distillers' grains, cottonseed meal, ground grain screenings, oat meal mill by-product, (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Molasses, corn distillers' dried grains, cottonseed meal, ground grain screenings, oat middlings, oat hulls, oat shorts, salt and trace small whole weed seeds.	3768
4.66	5.50	16.84	16.00	2.70	Molasses, corn distillers' grains, cottonseed meal, ground grain screenings, oat meal mill by-product, (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Molasses, corn distillers' dried grains, cottonseed meal, ground grain screenings, oat middlings, oat hulls, oat shorts, salt and trace small whole weed seeds.	3793
5.28	5.50	15.36	16.00	2.50	Molasses, corn distillers' grains and solubles, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), calcium phosphate, palm kernel oil meal, ground grain screenings and $\frac{3}{4}$ of 1% salt.	Molasses, corn distillers' dried grains and solubles, cottonseed meal, oat middlings, oat hulls, oat shorts, calcium phosphate, velvet bean and pod meal, ground grain screenings and salt.	4501
4.26	4.50	12.69	16.00	50.00	Molasses, corn distillers' grains, cottonseed meal, ground grain screenings, oat meal mill by-product, (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Molasses, palm oil cake meal, cottonseed meal, ground grain screenings, oat middlings, oat hulls, oat shorts, salt and small amount small whole weed seeds.	4141
4.86	5.50	9.94	16.00	2.75	Molasses, corn distillers' grains, cottonseed meal, ground grain screenings, oat meal mill by-product, (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Molasses, velvet bean and pod meal, cottonseed meal, ground grain screenings, oat middlings, oat hulls, oat shorts, calcium phosphate, palm kernel oil meal, salt and small amount small whole weed seeds.	4076
4.33	5.50	11.13	16.00	2.70	Molasses, corn distillers' grains and solubles, cottonseed meal, ground grain screenings, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), calcium phosphate, palm kernel oil meal and $\frac{3}{4}$ of 1% salt.	Molasses, corn distillers' dried grains and solubles, cottonseed meal, ground grain screenings, oat middlings, oat hulls, oat shorts, calcium phosphate, velvet bean and pod meal and salt.	4506
4.27	4.50	11.05	16.00	51.33	Molasses, corn distillers' grains and solubles, cottonseed meal, ground grain screenings, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), calcium phosphate, palm kernel oil meal and $\frac{3}{4}$ of 1% salt.	As certified, -----	4386
3.68	3.50	16.32	16.50	2.30	Cottonseed meal, brewers' dried grains, clipped oat by-product, ground wheat screenings, molasses and 1% salt.	As certified, -----	3819
3.73	3.50	15.18	12.00	2.50	Cottonseed meal, brewers' dried grains, clipped oat by-product, ground wheat screenings, molasses and 1% salt.	As certified, -----	
3.70	-----	15.75	-----	2.40			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4911	Purina Cow Chow Feed, -----	Somerset, H. C. Beerits' Sons,	Per cent. 11.51	Per cent. 24.19	Per cent. 24.00
4532	Purina Cow Chow Feed, -----	Center Hall, Bradford & Son,	11.22	24.06	24.00
3894	Purina Cow Chow Feed, -----	Mechanicsburg, M. C. Dietz & Son,	10.14	25.81	24.00
3829	Purina Cow Chow Feed, -----	Penbrook, O. S. Ebersole,	9.63	26.19	24.00
4599	Purina Cow Chow Feed, -----	Honesdale, Honesdale Milling Co.	17.04	25.52	24.00
3630	Purina Cow Chow Feed, -----	Huntingdon, Huntingdon Milling Co.	8.86	26.75	24.00
3643	Purina Cow Chow Feed, -----	Millersburg, Millersburg Milling Co.	9.63	26.13	24.00
4461	Purina Cow Chow Feed, -----	Wesleyville, W. D. Ripley,	12.29	25.74	24.00
4635	Purina Cow Chow Feed, -----	York, H. H. Smyser, --	9.74	26.29	24.00
3900	Purina Cow Chow Feed, -----	Carlisle, W. S. Stuart, --	8.28	25.19	24.00
4293	Purina Cow Chow Feed, -----	Knoxville, Union Products Co.	12.92	21.97	24.00
4040	Purina Cow Chow Feed, -----	Lock Haven, E. E. Wentz,	11.77	25.48	24.00
		Average, -----	11.08	25.28	-----

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or ewt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et.	Per et.	Per et.	Per et.	3 25	Cottonseed meal, brewers' dried grains, gluten feed from corn, ground alfalfa, molasses and 1% salt.	As certified, -----	4011
3.12	4.50	11.53	13.50				
4.23	4.80	11.49	12.00	3 00	Old process linseed oil meal, gluten feed from corn, hominy feed, cottonseed meal, ground alfalfa, molasses and 1% salt.	As certified, -----	4532
3.89	4.50	13.12	13.50	59 00	Cottonseed meal, brewers' dried grains, gluten feed from corn, ground alfalfa, molasses and 1% salt.	As certified, -----	3594
4.54	4.50	12.74	13.50	2 90	Cottonseed meal, brewers' dried grains, gluten feed from corn, ground alfalfa, molasses and 1% salt.	As certified, -----	3520
4.26	4.80	9.16	12.00	61 00	Old process linseed oil meal, gluten feed from corn, hominy feed, cottonseed meal, ground alfalfa, molasses and 1% salt.	As certified, -----	4599
5.62	4.50	13.36	13.50	2 75	Cottonseed meal, brewers' dried grains, gluten feed from corn, ground alfalfa, molasses and 1% salt.	As certified, -----	3630
4.88	4.50	13.27	13.50	3 00	Cottonseed meal, brewers' dried grains, gluten feed from corn, ground alfalfa, molasses and 1% salt.	As certified, -----	3643
4.32	4.80	11.21	12.00	3 25	Old process linseed oil meal, gluten feed from corn, hominy feed, cottonseed meal, ground alfalfa, molasses and 1% salt.	As certified, -----	4464
4.07	4.80	9.38	12.00	3 25	Old process linseed oil meal, gluten feed from corn, hominy feed, cottonseed meal, ground alfalfa, molasses and 1% salt.	As certified, -----	4635
4.87	3.70	14.76	16.00	57 00	Cottonseed meal, brewers' dried grains, gluten feed from corn, ground alfalfa, molasses and 1% salt.	As certified, -----	3900
3.97	-----	11.07	-----	60 00		Corn, alfalfa meal, cottonseed meal, gluten feed, brewers' dried grains, molasses and salt.	4203
4.01	4.50	12.12	13.50	3 25	Cottonseed meal, brewers' dried grains, gluten feed from corn, ground alfalfa, molasses and 1% salt.	As certified, -----	4040
4.32	-----	11.93	-----	60 83			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3765	Purina Dairy Feed, -----	Latrobe, Latrobe Feed Supply Co.	Per et. 9.30	Per et. 21.69	Per et. 20.00
4337	Purina Dairy Feed, -----	Oxford, H. M. Long, ----	10.95	23.72	20.00
4614	Purina Dairy Feed, -----	Charleroi, Western Flour Co.	12.32	24.51	20.00
4343	THE SUGARINE CO., PEORIA, ILL. Sugarine Dairy Feed, -----	Average, -----	10.85	23.31	-----
		Oxford, Mackey & Yerkes,	10.97	21.13	16.50
3971	Sugarine Dairy Feed, -----	Lewistown, Spanogle Yeager Milling Co.	7.91	21.60	16.50
4123	SUTHERLAND FLOUR MILLS CO., CAIRO, ILL. Daisy Dairy Feed, -----	Average, -----	9.44	21.37	-----
		New Salem, M. Duyava,--	14.99	9.02	13.25
3782	THOMPSON & GLENN, BUTLER, PA. Perfection Dairy Feed, -----	Butler, Thompson & Glenn.	10.59	20.81	20.00
4273	TIOGA MILL & ELEVATOR CO., WAVERLY, N. Y. Red Brand Ti-O-Ga Dairy Feed, ----	Ulster, H. O. Ayer, ----	10.72	28.19	23.60

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per cent.	Per cent.	Per cent.	Per cent.	\$			
3.21	3.80	15.44	15.00	3 00	Cottonseed meal, brewers' dried grains, gluten feed from corn, ground alfalfa, molasses and 1% salt.	As certified, -----	3765
3.05	3.50	14.95	16.50	55 00	Cottonseed meal, brewers' dried grains, gluten feed from corn, ground alfalfa, molasses and 1% salt.	As certified, -----	4337
3.36	3.60	13.75	16.50	3 00	Cottonseed meal, brewers' dried grains, gluten feed from corn, ground alfalfa, molasses and 1% salt.	As certified, -----	4614
3.21*	-----	14.71	-----	58.34			
4.38	3.50	12.77	14.00	50 00	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles, palm kernel meal, calcium carbonate and salt.	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles, palm kernel meal, malted barley, malt sprouts, calcium carbonate and salt and small mount small whole weed seeds.	4343
4.21	3.50	15.02	14.00	2 50	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and solubles and salt.	As certified, -----	3971
4.30	-----	13.89	-----	50 00			
2.02	3.50	9.69	12.50	2 90	Ground corn, wheat bran, wheat screenings, alfalfa meal, oat feed and molasses.	Ground corn, wheat screenings, alfalfa meal, molasses and insects. Damaged.	4123
5.18	5.00	13.21	15.00	2 70	Cottonseed meal, molasses, ground clipped oat by-product, ground cleaned grain screenings, wheat bran, linseed oil meal and salt.	Cottonseed meal, molasses, ground clipped oat by-product, ground cleaned grain screenings, wheat bran, linseed oil meal, salt and trace small whole weed seeds.	3782
6.38	3.50	7.82	11.00	3 25	Old process linseed meal, corn distillers' grains, dried brewers' grains, corn gluten feed, corn gluten meal, cottonseed meal, wheat bran, wheat middlings, cane molasses and salt.	As certified, -----	4273

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4257	Red Brand Ti-O-Ga Dairy Feed, ----	Towanda, Dayton Milling Co.	Per et. 10.85	Per et. 28.00	Per et. 23.00
3821	WESTERN GRAIN PRODUCTS CO., HAMMOND, IND. Hammond Dairy Feed, -----	Average, ----- Penbrook, O. S. Ebersole,	10.78 9.74	28.10 16.75	----- 16.50
4449	Hammond Dairy Feed, -----	Erie, Erie Milling & Supply Co.	13.97	15.96	16.50
4524	Hammond Dairy Feed, -----	Montrose, Harrington & Wilson.	9.00	19.00	16.50
4073	Hammond Dairy Feed, -----	Greenville, Mathers Brothers.	11.94	16.76	16.50
3892	Hammond Dairy Feed, -----	Mechaniesburg, J. W. Miller.	10.00	18.38	16.50
3911	Hammond Dairy Feed, -----	Quakertown, Allen K. Smith.	10.91	18.38	16.50
3984	Hammond Dairy Feed, -----	Hatfield, Estate of George S. Snyder.	10.03	17.56	16.50
3675	Hammond Dairy Feed, -----	Lebanon, E. Strickler's Sons.	12.96	17.91	16.50

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber. Guaranteed. Found.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.			
Per cent. 5.98	Per cent. 3.50	Per cent. 7.15	Per cent. 11.00	Price per ton or cwt. \$ 25			
					Old process linseed meal, corn distillers' grains, dried brewers' grains, corn gluten feed, cottonseed meal, wheat bran, wheat middlings, cane molasses and salt.	As certified,	4257
6.18		7.23		3 25			
6.28	3.50	12.26	12.00	2 50	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoa shell meal, molasses and salt.	As certified,	3821
3.56	3.50	11.00	14.20	47 00	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoa shell meal, molasses and salt.	Cottonseed meal, ground clipped oat by-product, ground grain screenings, co-coa shell meal, molasses and salt.	4449
3.70	3.50	12.10	14.20	2 50	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoa shell meal, molasses and salt.	Cottonseed meal, corn, distillers' grains, ground clipped oat by-product, ground grain screenings, molasses, salt and small amount small whole weed seeds.	4524
4.71	3.50	13.51	14.20	2 55	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoa shell meal, molasses and salt.	As certified,	4079
4.47	3.50	13.90	12.00	49 00	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoa shell meal, molasses and salt.	As certified,	3892
4.34	3.50	13.98	14.20	2 60	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoa shell meal, molasses and salt.	Cottonseed meal, corn distillers' dried grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoa shell meal, molasses, salt and small amount smal! whole weed seeds.	3919
4.75	3.50	14.18	14.20	2 45	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoa shell meal, molasses and salt.	As certified,	3984
4.13	3.50	13.46	12.00	2 30	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, co-coa shell meal, molasses, salt and small amount small whole weed seeds.	Cottonseed meal, ground clipped oat by-product, ground grain screenings, co-coa shell meal, molasses, salt and small amount small whole weed seeds.	3674

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3625	Hammond Dairy Feed, -----	Windber, Weaver & Berkey.	Per et. 8.80	Per et. 17.81	Per et. 16.50
	PROPRIETARY STOCK, HORSE AND MULE FEEDS.	Average, -----	10.81	17.61	-----
3886	ACME-EVANS CO., INDIANAPOLIS, IND. Acme Farm Feed, -----	Munson, Jacob Smutzinger,	11.00	14.88	12.00
4407	Acme Stock Feed, -----	Oil City, Clyde D. Duffey,	9.29	9.63	9.00
4149	Acme Stock Feed, -----	Altoona, Leibovitz Feed Mills.	9.37	10.81	8.00
4651	Acme Stock Feed, -----	Juniata, R. I. Remaley, --	9.21	10.50	9.00
	ACME MILLING CO., OLEAN, N. Y.	Average, -----	9.29	10.31	-----
4363	Acme Feed, -----	Ridgway, Smith Brothers Co.	11.79	10.00	7.00
	THE AKRON FEED & MILLING CO., AKRON, OHIO.				
3771	C. O. & B. Stock Feed, -----	Irwin, H. Altman & Son,--	7.68	10.00	8.5-10
3784	C. O. & B. Stock Feed, -----	Butler, Thompson & Glenn,	8.00	10.81	9.00
	Average, -----				
4052	Portage Stock Feed, -----	Lock Haven, M. L. Clas- ter.	7.84	10.41	-----
			8.51	9.94	9.00
3848	Portage Stock Feed, -----	Beaver Falls, Dodds & Gar- rett,	7.28	13.13	9.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber.			Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.49	Per ct. 3.50	Per ct. 74.71	Per ct. 12.00	\$ 2.40	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoa shell meal, molasses and salt.	Cottonseed meal, corn distillers' dried grains, malt sprouts, ground clipped oat by-product, ground grain screenings, cocoa shell meal, molasses, salt and small amount small whole weed seeds.	3625
4.60		13.23		49.11			
4.57	5.00	6.39	7.00	3.00	Wheat middlings, wheat bran, hominy feed and ground shelled corn.	As certified, -----	3886
4.75	4.00	11.52	9.00	3.25	Corn, homilk (corn feed meal), wheat bran, wheat middlings, hominy meal, oat feed, oat bulls, oat middlings and salt.	As certified, -----	4407
4.76	4.00	6.99	9.00	3.50	Corn, hominy, corn feed meal, barley, oat hulls, oat shorts and oat middlings.	Corn, hominy, corn feed meal, oat hulls, oat shorts and oat middlings.	4149
3.18	4.00	10.62	9.00	3.00	Corn, homilk (corn feed meal), barley, wheat middlings, wheat bran, hominy meal, oat hulls, oat shorts, oat middlings and salt.	Corn, corn feed meal, wheat middlings, wheat bran, hominy meal, oat hulls, oat shorts, oat middlings and salt.	4651
4.23		9.71		3.25			
4.48	3.00	4.42	9.00	3.75	Corn, hominy, oat hulls and $\frac{1}{2}$ of 1% salt.	As certified, -----	4363
4.40	4.00	12.87	9.00	3.00	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	3771
5.01	4.00	11.08	9.00	3.00	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	3784
4.71		11.97		3.00			
4.19	4.00	11.10	9.00	3.25	White or yellow shelled corn, barley, oat shorts, oat bulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	4052
5.65	4.00	12.12	9.00	2.90	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	3848

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4026	Portage Stock Feed, -----	Townville, C. F. Hopkins,	Per ct. 9.21	Per ct. 11.06	Per ct. 9.00
4687	Portage Stock Feed, -----	Sealp Level, Abram Hostetter.	8.66	10.56	9.00
4307	Portage Stock Feed, -----	Washington, C. S. Hunter & Co.	9.30	9.25	9.00
3623	Portage Stock Feed, -----	Johnstown, Johnstown Milling Co.	8.12	10.88	9.00
4541	Portage Stock Feed, -----	Jeannette, Keystone Supply Co.	8.00	10.81	9.00
4423	Portage Stock Feed, -----	Franklin, J. H. Lavery's Sons.	10.13	11.06	9.00
3680	Portage Stock Feed, -----	Bedford, H. H. Lysinger & Son.	8.73	9.13	9.00
3774	AMERICAN MILLING CO., PEORIA, ILL. Ameo Stock Feed, -----	Average, -----	8.66	10.65	-----
		Irwin, H. Altman & Son,	7.15	14.31	10.00
3714	Ameo Stock Feed, -----	Braddock, Braddock Feed & Supply House.	8.21	15.25	10.00
4004	Ameo Stock Feed, -----	Somerset, John G. Emert,	7.90	13.63	10.00
4176	Ameo Stock Feed, -----	Wellsboro, Equity Co-Operative Exchange.	9.20	14.75	10.00
4308	Ameo Stock Feed, -----	Washington, C. S. Hunter Co.	9.26	13.31	10.00
		Average, -----	8.34	14.25	-----

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber. Guaranteed. Found.			Certified Composition. Price per ton or cwt.	Identified by Micro- scopical Examination.	Chemist's number.	
Per ct. 4.27	Per ct. 4.00	Per ct. 12.10	Per ct. 9.00	\$ 3 30	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	4026
3.33	4.00	14.22	9.00	2 75	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	4687
4.05	4.00	12.80	9.00	3 25	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	4307
4.07	4.00	14.46	9.00	3 00	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified, -----	3623
5.57	4.00	11.57	9.00	58.00	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	Shelled corn, oat shorts, oat hulls, oat middlings and salt.	4541
6.17	4.00	10.72	9.00	2 85	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	Shelled corn, oat shorts, oat hulls, oat middlings and salt.	4423
4.68	4.00	11.25	9.00	2 80	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	Shelled corn, oat shorts, oat hulls, oat middlings and salt.	3680
4.65	-----	12.26	-----	60 00			
4.19	3.50	13.42	8.00	3 00	Corn germ meal, corn feed meal, cottonseed meal, corn gluten feed, oat hulls, oat middlings, oat shorts and salt.	As certified, -----	3774
4.41	3.50	10.73	8.00	58 00	Corn germ meal, corn feed meal, cottonseed meal, corn gluten feed, oat hulls, oat middlings, oat shorts and salt.	As certified, -----	3714
6.11	3.50	10.09	9.00	3 10	Corn germ meal, corn feed meal, cottonseed meal, corn gluten feed, oat hulls, oat middlings, oat shorts and salt.	As certified, -----	4004
4.15	3.50	13.80	9.00	3 00	Corn germ meal, corn feed meal, cottonseed meal, corn gluten feed, oat hulls, oat middlings, oat shorts and salt.	Corn germ meal, corn feed meal, cottonseed meal, oat hulls, oat middlings, oat shorts and salt.	4176
6.25	3.50	9.97	9.00	3 25	Corn germ meal, corn feed meal, cottonseed meal, corn gluten feed, oat hulls, oat middlings, oat shorts and salt.	As certified, -----	4308
5.02	-----	11.60	-----	61 00			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4414	ARCADY FARMS MILLING CO., CHICAGO, ILL. Aready Stock Feed, -----	Oil City, New Model Milling Co.	Per cent.	Per cent.	Per cent.
			8.30	12.19	10.00
4030	Aready Stock Feed, -----	Centerville, Stewart & Kirk.		8.91	11.69
		Average, -----	8.60	11.94	-----
4369	J. J. BADENOCH CO., CHICAGO, ILL. Badenoch's Stock Feed, -----	St. Marys, Hall, Kaul & Hyde Co.		8.94	8.00
			11.04		
3653	BLANK & GOTTSALL, SUNBURY, PA. B. & G. Horse Food, -----	Sunbury, Blank & Gottshall.		11.69	11.00
			10.05		
3729	BUSHKILL MILLING CO., EASTON, PA. Mixed Feed, -----	Easton, Dull's Flour & Feed Store.		11.50	10.00
			12.84		
4017	CHESBRO BROTHERS, ATTICA, N. Y. Corn, oats and Barley Feed, -----	DuBois, A. T. Sprankle,--		14.56	10.00
			9.82		
4525	THE ALBERT DICKINSON CO., CHICAGO, ILL. Stag Stock Feed, -----	Montrose, Andre & Sweet,		12.00	9.00
			10.82		
4562	Stag Stock Feed, -----	Homer, Thomas K. George,		11.81	9.00
			10.36		

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or evt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et. 5.21	Per et. 3.50	Per et. 13.77	Per et. 15.00	\$ 3 00	Corn oil cake meal, old process linseed oil meal, hominy feed, wheat bran and wheat middlings with screenings not to exceed mill run, ground oats, corn feed meal, clipped oat by-product and salt 1%.	As certified, -----	4414
4.32	3.50	12.87	15.00	3 15	Corn oil cake meal, old process linseed oil meal, hominy feed, wheat bran and wheat middlings with screenings not to exceed mill run, ground oats, corn feed meal, clipped oat by-product and salt 1%.	As certified, -----	4030
4.77	-----	13.32	-----	3 08			
2.48	3.00	9.47	12.00	3 75	Hominy feed, corn feed meal, oat middlings, oat shorts, oat hulls and salt.	As certified, -----	4369
4.49	5.00	6.22	5.50	3 30	Rolled oats, barley, rye and corn.	As certified, -----	3653
3.11	3.00	7.78	7.00	3 00	Corn, rye, rye feed, oats and middlings.	As certified, -----	3729
5.42	5.00	8.72	9.00	3 50	Corn, hominy, barley, oat shorts, oat middlings, oat hulls, wheat middlings, linseed oil meal and $\frac{1}{2}$ of 1% salt.	Corn, hominy, oat shorts, oat middlings, oat hulls, wheat middlings, linseed oil meal and salt.	4017
3.98	3.00	8.29	9.00	3 10	Corn feed meal, ground corn bran, ground corn screenings, ground barley, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), wheat middlings, cottonseed meal and salt $\frac{1}{2}$ of 1%.	As certified, -----	4525
4.18	3.00	7.77	9.00	3 00	Corn feed meal, ground corn bran, ground corn screenings, ground barley, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), wheat middlings, cottonseed meal and salt $\frac{1}{2}$ of 1%.	Corn feed meal, ground corn bran, ground corn screenings, oat middlings, oat hulls, oat shorts, wheat middlings, cottonseed meal and salt.	4562

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3838	Stag Stock Feed, -----	New Kensington, J. A. Hawk.	Per cent. 10.70	Per cent. 10.63	Per cent. 9.00
4652	White Cross Stock Feed, -----	Average, ----- Juniata, R. I. Remaley,--	10.62	11.48	-----
4019	White Cross Stock Feed, -----	DuBois, A. T. Sprankle,--	12.06	9.88	10.00
4241	DIEHL, OMKAKE & DIEHL, CHAMBERSBURG, PA. D. O. D. Stock Feed, -----	Average, ----- Chambersburg, Diehl, Om- wake & Diehl.	11.35	10.97	-----
4155	EMPORIUM MILLING CO., EM- PORIUM, PA. Emporium Feed, -----	Emporium, Emporium Mill- ing Co.	10.79	9.25	7.63
3834	JOHN W. ESHelman, LANCAS- TER, PA. Eshelman's Stock Feed, -----	Hummelstown, Joseph Burkholder.	10.76	10.94	10.00
4673	Eshelman's Stock Feed, -----	Lancaster, John W. Esb- elman.	10.09	13.69	10.00
4398	Eshelman's Stock Feed, -----	Coatesville, Handwork Brothers.	9.90	13.56	10.00
4088	FLORY MILLING CO., BANGOR, PA. Special Mixed Horse Feed, -----	Average, ----- Bangor, Flory Milling Co.,	10.25	12.73	-----
			10.19	13.94	8.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.	Fiber.				Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
	Found.	Guaranteed.	Found.	Guaranteed.				
Per et. 3.52	Per et. 3.00	Per et. 8.22	Per et. 9.00	\$ 3 20	Corn feed meal, ground corn bran, ground corn screenings, ground barley, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), wheat middlings, cottonseed meal and salt $\frac{1}{2}$ of 1%.	Corn feed meal, ground corn bran, ground corn screenings, oat middlings, oat hulls, oat shorts, wheat middlings, cotton seed meal and salt.		3838
3.89		8.09	—	3 10				
5.43	3.50	5.57	10.00	3 50	Ground oats, ground barley, corn feed meal, wheat middlings, ground corn bran, cottonseed meal and salt $\frac{1}{4}$ of 1%.	Ground oats, corn feed meal, wheat middlings, ground corn bran, cottonseed meal and salt.		4652
3.93	3.50	5.11	10.00	3 75	Ground oats, ground barley, corn feed meal, wheat middlings, ground corn bran, cottonseed meal and salt $\frac{1}{4}$ of 1%.	As certified, —		4019
4.68		5.34	—	3 63				
4.71	3.25	8.36	15.00	60 00	Corn chop, wheat bran, wheat middlings, oat feed, old process oil meal, cottonseed meal, ground barley and $\frac{1}{2}$ of 1% salt.	Corn chop, wheat bran, wheat middlings, oat feed, old process oil meal, cottonseed meal, ground barley, corn gluten feed, distillers' dried grains, brewers' dried grains, malt sprouts, alfalfa meal and salt.		4241
3.57	2.97	5.14	9.00	3 15	Corn, hominy, oats and oat hulls.	As certified, —		4155
4.36	3.00	10.44	9.00	2 75	Oat middlings, wheat middlings, cottonseed meal, ground grain screenings, rye middlings, corn meal, oat hulls and hominy feed.	Oat middlings, wheat middlings, cottonseed meal, ground grain screenings, corn meal, oat hulls and hominy feed.		3834
3.60	3.00	9.62	10.00	49.50	Oat middlings, wheat middlings, cottonseed meal, ground grain screenings, rye middlings, corn meal, oat hulls and hominy feed.	As certified, —		4673
4.68	3.00	8.70	10.00	2 85	Oat middlings, wheat middlings, cottonseed meal, ground grain screenings, rye middlings, corn meal, oat hulls and hominy feed.	As certified, —		4398
4.21		9.58	—	53 83				
4.70	4.00	3.91	5.00	2 80	Rye, oats, corn, wheat screening and wheat middlings.	As certified, —		4088

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3977	FRANKLIN MILLING CO., SWINEFORD, PA. Franklin Stock Food, -----	Swineford, Franklin Milling Co.	Per ct. 12.50	Per ct. 11.44	Per ct. 9.00
4212	GLOBE ELEVATOR CO., BUFFALO, N. Y. Buffalo Stock Feed, -----	Westfield, F. A. Ackley, --	9.03	11.13	9-12
4512	Buffalo Stock Feed, -----	Brookville, Kline's Sifter Mills.	10.73	10.88	9.00
3958	Buffalo Stock Feed, -----	Punxsutawney, Mahoning Valley Milling Co.	9.92	9.88	9.00
4260	D. H. GRANDIN MILLING CO., JAMESTOWN, N. Y. Grandin's Stock Food, -----	Average, ----- Towanda, Dayton Milling Co.	9.89 10.14	10.63 10.56	----- 9-12
4522	Grandin's Stock Food, -----	Montrose, Harrington & Wilson.	9.50	11.63	9-12
4604	Grandin's Stock Food, -----	Honesdale, Wayne Milling Co.	7.83	12.63	9-12
4031	HALES & EDWARDS CO., CHICAGO, ILL. Pioneer Stock Feed, -----	Average, ----- Carnegie, J. H. Burgan & Son.	9.15 11.42	11.61 12.25	----- 10.00
4471	THE H-O COMPANY, BUFFALO, N. Y. Horse Feed with Alfalfa, -----	Bellefonte, N. J. Heckman,	10.69	11.06	11.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber. Guaranteed. Found.	Price per ton or cwt. Guaranteed.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.		
Per ct. 3.35	Per ct. 2.50	Per ct. 3.40	Per ct. 9.00	4% 3 25	Corn, oats, recleaned wheat screenings, and trace of buckwheat from tollage.	As certified, -----	3977
3.70	3-5	11.00	14.00	3 25	Ground corn, corn hominy feed, ground oats and oat hulls, barley middlings, barley hulls, wheat middlings, cottonseed meal and salt $\frac{3}{4}$ of 1%.	As certified, -----	4212
3.08	3.00	9.40	9.00	2 90	Ground corn, corn hominy feed, ground oats and oat hulls, barley middlings, barley hulls, wheat middlings, cottonseed meal and salt $\frac{3}{4}$ of 1%.	As certified, -----	4512
4.03	3.00	11.12	9.00	3 25	Ground corn, corn hominy feed, ground oats and oat hulls, ground barley and barley by-products, wheat middlings, cottonseed meal and salt $\frac{3}{4}$ of 1%.	Ground corn, corn hominy feed, ground oats and oat hulls, wheat middlings, cottonseed meal and salt.	3958
3.60	-----	10.51	-----	3 13			
5.50	5-7	7.82	10-14	3 25	Fine white hominy feed, corn gluten feed, oat meal mill by-product, (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	4260
5.81	5-7	8.72	10-14	3 10	Fine white hominy feed, corn gluten feed, oat meal mill by-product, (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	4522
7.05	5-7	7.70	10-14	3 15	Fine white hominy feed, corn gluten feed, oat meal mill by-product, (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	4604
6.12	-----	8.08	-----	3 17			
3.80	2.50	7.45	9.00	3 25	Corn feed meal, oat middlings, oat shorts, oat hulls, wheat middlings, wheat bran, corn gluten feed and crushed oats.	As certified, -----	4061
3.70	3.00	9.70	12.00	3 25	Alfalfa meal; wheat mids, ground corn, oat hulls, oat shorts, linseed oil meal and $\frac{1}{2}$ of 1% salt.	As certified, -----	4471

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4021	JAMESTOWN ELECTRIC MILLS JAMESTOWN, N. Y. Jem Stock Feed, -----	DuBois, Timlin, Kelley Co.,	Per ct. 9.40	Per ct. 12.56	Per et. 11.00
4152	KLEPSER BROTHERS, MARTINSBURG, PA. Horse Chop, -----	Altoona, Klepser Brothers,	10.65	14.44	7.00
3745	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Badger Stock Feed, -----	Doylestown, Henry S. Beidler.	8.81	14.13	10.00
3713	Badger Stock Feed, -----	Braddock, Braddock Feed & Supply House.	10.23	10.69	10.00
4172	Badger Stock Feed, -----	Wellsboro, Equity Co-Operative Exchange.	8.61	10.19	10.00
4448	Badger Stock Feed, -----	Erie, Erie Milling & Supply Co.	8.15	11.63	10.00
4143	Badger Stock Feed, -----	New Bloomfield, Garber & Co.	9.20	9.63	10.00
4557	Badger Stock Feed, -----	Homer, Thomas K. George,	7.90	14.31	16.00
4264	Badger Stock Feed, -----	Towanda, F. H. Hagerman	10.18	11.38	10.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber. Guaranteed. Found.	Fiber. Guaranteed. Found.	Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.	
Per ct. 4.02	Per ct. 6.00	Per ct. 8.73	Per ct. 9.00	\$ 3 30	Ground corn, hominy feed, corn oil meal, ground oats, oat middlings, oat shorts, reground oat hulls, linseed oil meal, and small per cent. of fine salt.	As certified, -----	4021
4.72	3.00	4.13	7-9	3 50	Rye midds, wheat midds, oats and hominy.	As certified, -----	4152
4.18	4.50	13.56	9.00	55 00	Hominy feed, corn, corn germ meal, maizo red dog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	3745
3.46	4.50	12.60	9.00	50 00	Hominy feed, corn, corn germ meal, maizo red dog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	3713
4.15	4.50	13.25	9.00	3 00	Hominy feed, corn, corn germ meal, maizo red dog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts), wheat bran and wheat middlings with screenings not exceeding mill run and salt.	As certified, -----	4172
3.94	4.50	11.45	12.00	2 85	Hominy feed, corn, corn germ meal, maizo red dog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts), wheat bran and wheat middlings with screenings not exceeding mill run and salt.	As certified, -----	4448
4.55	4.50	13.47	9.00	2 90	Hominy feed, corn, corn germ meal, maizo red dog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts), wheat bran and wheat middlings with screenings not exceeding mill run and salt.	As certified, -----	4143
4.50	4.50	12.17	9.00	3 00	Hominy feed, corn, corn germ meal, maizo red dog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts), wheat bran and wheat middlings with screenings not exceeding mill run and salt.	As certified, -----	4557
4.35	4.50	8.42	9.00	2 85	Hominy feed, corn, corn germ meal, maizo red dog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts), wheat bran and wheat middlings with screenings not exceeding mill run and salt.	As certified, -----	4264

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3839	Badger Stock Feed, -----	New Kensington, J. A. Hawk.	Per ct. 11.56	Per ct. 9.81	Per ct. 10.00
3942	Badger Stock Feed, -----	West Point, Heebner & Kriebel.	8.86	10.00	10.00
3761	Badger Stock Feed, -----	Greensburg, McFarland Supply Co.	9.72	10.63	10.00
3811	Badger Stock Feed, -----	Harrisburg, Paxton Flour & Feed Co.	9.11	9.06	10.00
FRANK LE BAR, STROUDSBURG, PA.			Average, -----	9.30	11.04 -----
4112	Horse Feed, -----	Stroudsburg, Frank LeBar,	10.34	12.50	-----
MEFALL & MOSER, FLICKSVILLE, PA.					
4140	Horse Feed, -----	Bangor, S. E. Merkel & Co.	10.57	13.06	10.00
4139	Mixed Feed, -----	Bangor, S. E. Merkel & Co.	10.14	11.50	8.00
MANN & ALLSHOUSE, EASTON, PA.					
3732	Ground Mixed Feed, -----	Easton, Dull's Flour & Feed Store.	13.97	11.69	6-10
C. P. MATTHEWS & SONS, INC., SCRANTON, PA.					
4587	Best Mixed Feed for Horses, -----	Wilkes-Barre, C. P. Matthews & Sons, Inc.	11.08	12.06	9-10
MINER-HILLARD MILLING CO., WILKES-BARRE, PA.					
4582	Mihimoto Stock Feed, -----	Wilkes-Barre, Miner-Hillard Milling Co.	9.46	14.06	11.00
NEWSOME FEED & GRAIN CO., PITTSBURGH, PA.					
4444	Palmo Mixed Feed, -----	Erie, Erie Milling & Supply Co.	6.12	14.81	12.00
4419	Palmo Mixed Feed, -----	Tionesta, Lanson Brothers,	7.04	12.00	12.00
4071	Palmo Mixed Feed, -----	Farrell, J. B. Roux,	3.85	12.81	12.00
Average, -----			5.67	13.21	-----

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et.	Per et.	Per et.	Per et.	\$ 3 20	Hominy feed, corn, corn germ meal, maizo red-dog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	3839
4.03	4.50	9.97	9.00				
4.37	4.50	13.27	9.00	58 00	Hominy feed, corn, corn germ meal, maizo red-dog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	3942
4.23	4.50	11.57	9.00	3 15	Hominy feed, corn, corn germ meal, maizo red-dog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified, -----	3761
4.10	4.50	14.58	9.00	2 85	Hominy feed, corn, corn germ meal, maizo red-dog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts), wheat bran and salt.	As certified, -----	3811
4.17	-----	12.21	-----	58 09			
3.52	-----	9.14	-----	3 05	Corn, rye middlings, oat feed and barley feed.	Corn, rye middlings, oat shorts, oat hulls, barley middlings and barley hulls.	4112
3.58	6.00	4.36	10.00	72 00	Corn, oats, rye, rye middlings and wheat middlings.	As certified, -----	4140
3.79	4.00	4.45	10.00	60 00	Corn, oats, rye, rye middlings, wheat middlings and ear corn.	As certified, -----	4139
3.56	2-6	5.34	6.00	3 00	Corn, rye, rye bran, rye middlings and wheat middlings.	As certified, -----	3732
5.20	3-4	5.32	6-7	3 75	Corn, oats, mids and linseed.	As certified, -----	4587
5.27	5.00	7.35	10.00	3 10	Alfalfa meal, hominy feed, wheat middlings, rye middlings, corn, oats, corn oil meal and salt.	As certified, -----	4582
10.56	7.00	11.20	10.40	40 00	Cleaning middlings, reground cottonseed hulls and palm oil.	Wheat middlings, cottonseed hulls and palm oil.	4444
4.56	7.00	14.24	10.00	2 25	Cleaning middlings, reground cottonseed hulls and palm oil.	Rye middlings and screenings, cottonseed hulls and palm oil.	4419
5.25	7.00	13.40	10.00	2 00	Cleaning middlings, reground cottonseed hulls and palm oil.	Rye middlings, cottonseed hulls and palm oil.	4071
6.79	-----	12.94	-----	41 67			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3828	NORWAK MILLING CORPORATION, BUFFALO, N. Y. Domino Stock Feed, -----	Swatara, John B. Curry Estate.	Per ct. 9.04	Per ct. 11.81	Per ct. 10.00
4666	Domino Stock Feed, -----	Elizabethtown, Muth Brothers.	8.56	10.00	9.00
4145	Fidelity Stock Feed, -----	Average, ----- Millerstown, A. H. Ulsh,--	8.80 9.95	10.91 8.84	----- 8.00
4121	THE QUAKER OATS CO., CHI- CAGO, ILL. C. O. & B. Feed, -----	South Brownsville, C. D. Chamberlain.	9.19	11.81	10.00
4479	Schumacher Feed, -----	Tunkhannock, Brown & Fassett.	9.87	13.63	10.00
4047	Schumacher Feed, -----	Mill Hall, Continental Con- densed Milk Co.	9.65	12.25	10.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.25	Per ct. 3.00	Per ct. 6.85	Per ct. 9.00	\$ 2 70	Hominy feed, oat middlings, low grade flour, corn feed meal, oat hulls and salt $\frac{3}{4}$ of 1%.	As certified, -----	3828
4.98	3.00	13.07	10.00	3 00	Hominy feed, wheat flour, oat middlings, oat hulls, corn feed meal and salt $\frac{1}{2}$ of 1%.	As certified, -----	4663
5.62	-----	10.01	-----	2 85			
3.81	3.00	9.61	10.00	3 10	Ground oats, corn feed meal, hominy feed, wheat middlings, oat hulls and salt $\frac{1}{2}$ of 1%.	As certified, -----	4145
3.90	3.25	9.20	9.00	2 90	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degenerator process with partial extraction of oil, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), tricalcium phosphate and $\frac{1}{2}$ of 1% salt.	As certified, -----	4121
4.10	3.25	11.00	9.00	2 85	Ground corn, hominy feed, yellow hominy feed, ground barley, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate and $\frac{1}{2}$ of 1% salt.	As certified, -----	4479
4.66	3.25	10.50	9.00	2 90	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degenerator process with partial extraction of oil, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	As certified, -----	4047

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4190	Schumacher Feed, -----	Knoxville, Deerfield Milling Co.	Per cent. 9.33	Per cent. 10.50	Per cent. 10.00
4359	Schumacher Feed, -----	Rennett Square, C. G. Gawthrop Co.	11.77	11.00	10.00
3717	Schumacher Feed, -----	McKeesport, Keystone Commercial Co.	10.42	12.00	10.00
3686	Schumacher Feed, -----	Uniontown, King Brothers,	9.69	12.38	10.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.	Fiber.		Price per ton or evt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.				
Per ct. 3.50	Per ct. 3.25	Per ct. 8.85	Per ct. 9.00	\$ 2.80	Ground corn, hominy feed, yellow hominy feed, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), calcium carbonate and $\frac{1}{2}$ of 1% salt.	As certified, ----- 4190
2.74	3.25	10.12	9.00	56.00	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degeminator process with partial extraction of oil, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), tricalcium phosphate and $\frac{1}{2}$ of 1% salt.	As certified, ----- 4359
3.87	3.25	9.86	9.00	3.10	Ground corn, hominy feed, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	As certified, ----- 3717
3.86	3.25	11.30	9.00	3.40	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degeminator process with partial extraction of oil, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	As certified, ----- 3686

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3847	Schumacher Feed, -----	New Kensington, A. H. Klugh.	Per cent. 9.76	Per cent. 11.56	Per cent. 10.00
3952	Schumacher Feed, -----	West Point, L. W. Mattern.	9.25	12.25	10.00
4381	Sebumacher Feed, -----	Tyrone, Miller Brothers. --	9.45	12.44	10.00
4534	Schumacher Feed, -----	Lewisburg, E. C. Noll, ---	9.20	12.56	10.00
4218	Sebumacher Feed, -----	Canton, Preston Brothers,	11.22	11.44	10.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopic Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$ 3 25	Ground corn, hominy feed, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	As certified, -----	3847
3.95	3.25	10.26	9.00	2 90	Ground corn, hominy feed, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	As certified, -----	3952
3.73	3.25	11.73	9.00	3 00	Ground corn, hominy feed, corn feed meal, by-product from manufacture of hominy and corn meal by degenerator process with partial extraction of oil, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	As certified, -----	4381
3.53	3.25	11.32	9.00	58 00	Ground corn, hominy feed, yellow hominy feed, ground barley, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate and $\frac{1}{2}$ of 1% salt.	As certified, -----	4534
3.60	3.25	10.17	9.00	2 95	Ground corn, hominy feed, yellow hominy feed, ground barley, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate and $\frac{1}{2}$ of 1% salt.	As certified, -----	4218
3.49	3.25	7.62	9.00		Ground corn, hominy feed, yellow hominy feed, ground barley, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate and $\frac{1}{2}$ of 1% salt.		

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4606	Schumacher Feed, -----	Honesdale, Wayne Milling Co.	Per cent. 9.53	Per cent. 12.63	Per cent. 10.00
4597	Schumacher Feed, -----	Waynesburg, Waynesburg Milling Co.	8.97	12.50	10.00
4072	Victor Feed, -----	Average, ----- Farrell, J. B. Roux, -----	9.85 10.02	12.09 9.50	----- 8.00
4573	ROBBINS MILLING CO., WILKES-BARRE, PA. Luzerne Capital Stock Feed, -----	Wilkes-Barre, Robbins Milling Co.	10.03	15.06	12-14
4378	THE SPRUCE CREEK MILLING CO., SPRUCE CREEK, PA. Mixed Feed, -----	Spruce Creek, The Spruce Creek Milling Co.	11.16	9.63	-----
4125	SUTHERLAND FLOUR MILLS CO., CAIRO, ILL. Premium XXXX Stock Feed, -----	New Salem, M. Duyava, --	8.31	11.81	9.00
3855	THE UBIKO MILLING CO., CINCINNATI, OHIO. Ubiko Horse and Stock Feed, -----	Beaver Falls, M. W. McCandless.	9.48	18.69	16.00
4529	VIEHMAN GRAIN CO., MINNEAPOLIS, MINN. *Diamond Dairy Feed No. 2, -----	Coalport, Benn & Berger,--	8.90	11.63	8-9

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.	Fiber.				Certified Composition.	Identified by Microscopic Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.	Price per ton or ewt.			
Per ct. 3.88	Per ct. 3.25	Per ct. 9.27	Per ct. 10.00	\$ 3 00	Ground corn, hominy feed, yellow hominy feed, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), linseed meal, calcium phosphate, velvet bean feed meal and $\frac{1}{2}$ of 1% salt.	Ground corn, hominy feed, yellow hominy feed, ground barley, wheat flour, wheat middlings with mill run ground screenings, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), linseed meal, calcium phosphate and salt.	4606
4.35	3.25	10.52	9.00	3 00	Ground corn, hominy feed, yellow hominy feed, ground barley, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts), linseed meal, calcium phosphate and $\frac{1}{2}$ of 1% salt.	As certified, -----	4597
3.79	-----	10.19	-----	59 77	Ground corn, hominy feed, yellow hominy feed, oat meal mill by-product (oat middlings, oat hulls, oat shorts), calcium phosphate and $\frac{1}{2}$ of 1% salt.	As certified, -----	4072
3.87	3.08	9.95	12.00	2 60	Alfalfa meal, brown middlings, hominy feed, cracked corn, crushed oats, oil meal and salt.	As certified, -----	4573
6.15	4-6	7.37	6-9	3 25	Ear corn, oat feed and barley feed.	Ear corn, oat middlings, oat hulls, barley hulls and barley middlings.	4378
3.08	-----	9.12	-----	-----	Corn, oats, oat feed, grain screenings and alfalfa meal.	Corn, oats, oat middlings, oat hulls, grain screenings and alfalfa meal.	4125
3.87	2.00	12.99	15.00	3 25	Wheat middlings, hominy meal, wheat bran, brewers' dried grains, and old process linseed meal.	As certified, -----	3855
6.69	6.00	7.40	9.00	3 20	Ground grain screenings, broken flax, broken wheat, seeds, rice feed and oat feed.	Ground grain screenings, broken flax, broken wheat, seeds, rice feed, oat middlings and oat hulls.	4529
5.20	4-5	22.80	20-22	2 75	-----	-----	-----

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4380	*Diamond Dairy Feed No. 2, -----	Tyrone, Miller Brothers,--	Per ct. 9.67	Per ct. 10.50	Per ct. 8-9
		Average, -----	9.28	11.07	-----
3743	F. C. WILLIAMS, EASTON, PA. Dandy Horse Feed, -----	Easton, F. C. Williams, --	11.59	11.38	10.40
3742	Special Horse Feed, -----	Easton, F. C. Williams, --	11.60	12.50	-----
3744	Tip Top Horse Feed, -----	Easton, F. C. Williams, --	11.29	10.69	10.00
	PROPRIETARY STOCK, HORSE AND MULE FEEDS WITH MOLASSES.				
3707	ALFOCORN MILLING CO., EAST ST. LOUIS, ILL. Alfa-Oats Horse and Mule Feed, ---	Braddock, The Irwin Muir Co.	17.15	11.31	9.00
3833	Alfa-Oats Horse and Mule Feed, ---	Butler, George Walter & Sons.	11.88	11.43	9.00
	Average, -----		14.51	11.37	-----
3706	X-Tra Oats Horse and Mule Feed, --	Braddock, The Irwin Muir Co.	17.13	10.25	9.00
	AMERICAN MILLING CO., PEORIA, ILL. Ameo Fat Maker, -----				
4175		Wellsboro, Equity Co-Operative Exchange.	12.63	12.07	10.00
3776	Kick-A-Poo Horse Feed, -----	Irwin, H. Altman & Son,	12.68	10.62	10.00
3692	Kick-A-Poo Horse Feed, -----	Dunbar, Hardy & Porter,--	14.71	11.01	10.00
4537	Kick-A-Poo Horse Feed, -----	Lewisburg, E. C. Noll, ---	13.69	12.77	10.00
4684	Kick-A-Poo Horse Food, -----	Ebensburg, A. Skelly, ---	16.05	11.88	10.00
	Average, -----		14.28	11.57	-----
4322	Suerene Horse Feed with Alfalfa, ---	Canonsburg, Wm. H. Dunlap, Jr.	13.82	10.84	10.00
3837	Suerene Horse Feed with Alfalfa, ---	Middletown, Golden Leader Milling Co.	12.86	10.56	10.00
3637	Suerene Horse Feed with Alfalfa, ---	Huntingdon, L. S. Goodman & Sons.	14.58	11.10	10.00
4396	Suerene Horse Feed with Alfalfa, ---	Coatesville, Handwork Brothers.	14.90	10.97	10.00
	Average, -----		14.04	10.87	-----

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or ewt.	Certified Composition.	Identified by Microscopic Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.75	Per ct. 4-5	Per ct. 22.60	Per ct. 20-22	\$ 3 00	Ground grain screenings, broken flax, broken wheat, seeds, rice feed and oat feed.	Ground grain screenings, broken flax, broken wheat seeds, rice feed, oat middlings, oat hulls, trace of rice hulls, and small amount small whole weed seeds.	4380
4.98	-----	22.70	-----	2 88		As certified, -----	3743
4.02	3.50	4.50	5.50	3 00	Corn, rye middlings, oats and oat tailings.	As certified, -----	3742
3.44	-----	3.67	-----	3 10	Corn, oats, rye, rye middlings and wheat middlings.	As certified, -----	3744
3.69	3.30	4.72	5.50	2 90	Corn, rye middlings, oats and oat tailings.		
3.01	2.00	12.44	13.50	2 90	Oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3707
3.49	2.00	11.78	13.50	63 00	Oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3803
3.25	-----	12.11	-----	60.50		As certified, -----	3706
3.10	2.00	12.04	13.50	3 00	Corn, oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.		
3.98	3.50	8.62	12.00	3 00	Molasses, clipped oat by-product, corn, oats, corn distillers' dried grains and solubles and salt.	Corn, oats, corn distillers' dried grains and solubles, oat middlings, oat hulls, oat shorts, molasses and salt.	4175
3.40	3.00	12.49	12.00	3 00	Molasses, alfalfa meal, rolled oats and salt.	As certified, -----	3776
4.04	3.00	11.58	12.00	3 25	Molasses, alfalfa meal, rolled oats and salt.	As certified, -----	3692
4.28	3.00	10.64	12.00	2 90	Molasses, alfalfa, rolled oats and salt.	As certified, -----	4537
3.18	3.00	10.45	12.00	3 50	Molasses, alfalfa, rolled oats and salt.	As certified, -----	4684
3.73	-----	11.29	-----	3 16			
3.60	2.50	8.35	12.00	62 00	Molasses, alfalfa, corn, oats, barley and salt.	Molasses, alfalfa meal, corn, oats and salt.	4322
3.55	2.50	10.09	12.00	3 00	Molasses, alfalfa, corn, oats, barley, distillers' corn solubles and salt.	As certified, -----	3837
3.34	2.50	9.77	12.00	3 25	Molasses, alfalfa, corn, oats, barley, distillers' corn solubles and salt.	As certified, -----	3637
3.14	2.50	11.88	12.00	3 30	Molasses, alfalfa, corn, oats, barley and salt.	Molasses, alfalfa meal, corn, oats and salt.	4396
3.41	-----	10.02	-----	63.25			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4306	Tip Top Sugared Feed, -----	Washington, C. S. Hunter, Co.	Per et. 11.00	Per et. 18.00	Per et. 12.00
4032	ARCADY FARMS MILLING CO., CHICAGO, ILL. Arcady Father, -----	Centerville, Stewart & Kirk.	14.79	14.93	10.00
4504	J. J. BADENOCH CO., CHICAGO, ILL. Gloskoat Alfalfa Horse Feed, -----	Blairsville, J. A. McKelvey,	16.04	12.64	10.00
3891	THE BUCKEYE CEREAL CO., MASSILLON, OHIO. Energy Horse Feed, -----	Clearfield, J. T. Murphy,--	12.45	10.79	12.00
3678	CLOVER LEAF MILLING CO., BUFFALO, N. Y. Buffalo Horse Feed, -----	Everett, Francis Baker, --	15.35	12.82	9.00
4352	Clover Leaf Mills Horse Feed, -----	Coneordville, Richards & Schrader.	18.85	10.43	10.00
4147	Peerless Horse Feed, -----	Altoona, Leibovitz Feed Mills.	17.11	11.96	9.00
4584	Polo Horse Feed, -----	Wilkes-Barre, C. P. Matthews & Sons, Inc.	14.63	10.81	8.00
3613	THE ALBERT DICKINSON CO., CHICAGO, ILL. Hobby Horse Feed, -----	South Fork, J. E. Crisman.	13.83	10.76	9.00
4559	Hobby Horse Feed, -----	Homer, Thomas K. George,	14.51	11.99	9.00
3760	Hobby Horse Feed, -----	Greensburg, McFarland Supply Co.	12.93	10.61	9.00
		Average, -----	13.75	11.12	-----
4653	Oasis Horse Feed, -----	Juniata, R. I. Remaley,	14.74	12.40	8.00
3726	Rival Horse Feed, -----	Wilkinsburg, Johnston & Smith.	16.92	10.96	9.00
3864	Rival Horse Feed, -----	West Bridgewater, W. W. McCullough.	13.68	11.34	9.00
		Average, -----	15.30	11.15	-----

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.58	Per ct. 2.50	Per ct. 11.42	Per ct. 14.00	\$ 2 60	Ground and bolted screenings, molasses, clipped oat by-product, cottonseed meal, calcium carbonate, corn distillers' dried grains and solubles, palm kernel meal and salt.	Ground and bolted grain screenings, clipped oat by-product, cottonseed meal, calcium carbonate, corn distillers' dried grains and solubles, palm kernel meal, molasses, salt and small amount small whole weed seeds.	4306
3.35	3.00	10.42	15.00	3 15	Corn gluten feed, corn oil cake meal, cottonseed meal, corn feed meal, ground oats, oat meal mill by-product (oat middlings, oat hulls, oat shorts), old process linseed oil meal, molasses and salt 1%.	Cottonseed meal, corn feed meal, ground oats, oat middlings, oat hulls, oat shorts, old process linseed oil meal, wheat bran and wheat middlings with screenings, molasses and salt.	4032
2.15	2.00	11.09	16.00	3 25	Corn, oats, barley, alfalfa meal and molasses.	As certified, -----	4504
4.11	4.00	6.57	7-8	3 75	Rolled corn, rolled oats, barley feed, alfalfa and molasses.	Rolled corn, rolled oats, alfalfa and molasses.	3891
2.50	1.50	13.64	15.00	3 00	Cracked corn, crushed oats, alfalfa meal, flax plant by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3678
2.71	2.00	10.01	12.00	3 25	Cracked corn, crushed oats, alfalfa meal and molasses.	As certified, -----	4352
1.79	1.50	14.50	14.00	3 50	Cracked corn, crushed oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	4147
2.22	1.50	12.70	18.00	2 95	Cracked corn, crushed oats, alfalfa meal, ground and bolted clipped oat by-product and molasses.	Cracked corn, crushed oats, alfalfa meal, oat middlings, oat hulls, oat shorts and molasses.	4584
2.38	1.50	13.92	15.00	3 10	Corn, oats, alfalfa meal and molasses.	As certified, -----	3613
2.31	1.50	12.10	15.00	3 25	Corn, oats, alfalfa meal and molasses.	As certified, -----	4559
2.13	1.50	11.36	15.00	3 15	Corn, oats, alfalfa meal and molasses.	As certified, -----	3760
2.27	-----	12.49	-----	3 17			
2.38	1.50	11.50	15.00	3 50	Corn, oats, alfalfa meal and molasses.	As certified, -----	4653
1.48	1.50	14.33	15.00	3 15	Corn, oats, alfalfa meal and molasses.	As certified, -----	3726
2.04	1.50	12.23	15.00	3 00	Corn, oats, alfalfa meal and molasses.	As certified, -----	3864
1.76	-----	13.28	-----	3 08			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4354	DIXIE MILLS CO., EAST ST. LOUIS, ILL. Dixie Horse and Mule Feed, -----	Brandywine Summit, R. C. Fairlamb & Sons.	Per ct. 18.58	Per ct. 10.36	Per et. 10.00
3931	Dixie Horse and Mule Feed, -----	Lansdale, A. C. Godshall & Co., Inc.	15.23	10.42	10.00
4327	Dixie Horse and Mule Feed, -----	Washington, J. K. Lawson.	14.98	10.92	10.00
3787	Dixie Horse and Mule Feed, -----	Butler, Thompson & Glenn,	15.35	10.08	10.00
4278	FARAMEL MANUFACTURING CO., BUFFALO, N. Y. Faramel Horse Feed, -----	Average, -----	16.03	10.45	-----
		Bradford, Smith Brothers,	19.64	10.11	9.00
3755	GLOBE ELEVATOR CO., BUFFALO, N. Y. Blue Ribbon Horse Feed, -----	Doylestown, The Doylestown Poultry & Supply Co.	15.56	10.12	9-11
4514	Blue Ribbon Horse Feed, -----	Brookville, Kline's Sifter Mills.	14.34	12.79	9-11
4325	GOLDEN GRAIN MILLING CO., EAST ST. LOUIS, ILL. Mascot Horse and Mule Feed, -----	Average, -----	14.95	11.46	-----
3817	Puritan Horse and Mule Feed, -----	Canonsburg, W. H. Dunlap, Jr. Harrisburg, Hoffer & Garman.	16.69	10.80	9.00
3824	THE GOLDSBORO PURE FEED CO., GOLDSBORO, PA. *Gold-O Howard Horse Feed, -----	10.32	11.33	9.00	
4062	HIALES & EDWARDS CO., CHICAGO, ILL. Harvest Horse Feed, -----	Penbrook, O. S. Ebersole,	12.93	10.40	10.00
4539	Harvest Horse Feed, -----	Carnegie, J. H. Burgan & Son.	18.41	12.42	10.00
4412	DWIGHT E. HAMLIN, PITTSBURGH, PA. Hamlin's Quality Feed, -----	Jeannette, Keystone Supply Co.	15.07	11.85	10.00
4569	Hamlin's Quality Feed, -----	Average, -----	16.74	12.14	-----
4572	Hamlin's Quality Feed, -----	Oil City, Enterprise Milling Co. Indiana, Hetrick, Wilson & Co. Wilkes-Barre, Robbins Milling Co.	15.25	10.29	9.00
4460	THE H-O COMPANY, BUFFALO, N. Y. New England Stock Feed, -----	Average, -----	15.90	10.47	9.00
		Erie, West Side Feed Co.,	15.65	10.36	9.00
			7.55	11.00	9.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.73	Per ct. 2.50	Per ct. 8.72	Per ct. 12.00	\$ 65.00	Ground corn, oats, ground alfalfa and molasses.	As certified, -----	4354
2.46	2.50	9.87	12.00	3.00	Ground corn, oats, ground alfalfa and molasses.	As certified, -----	3931
2.97	2.50	9.63	12.00	3.50	Ground corn, oats, ground alfalfa and molasses.	Ground corn, oats, ground alfalfa, barley, molasses and small amount small whole weed seeds.	4327
3.00	2.50	9.03	12.00	3.10	Ground corn, oats, ground alfalfa and molasses.	As certified, -----	3787
2.79	-----	9.31	-----	64.25	-----	-----	-----
4.00	4.00	6.17	9.00	3.60	Oats, corn, wheat bran and molasses.	Oats, corn, wheat bran and molasses. Somewhat mouldy and damaged.	4278
1.89	2-4	9.34	12-14	3.20	Cracked corn, oats, barley, shredded alfalfa, molasses and salt $\frac{3}{4}$ of 1%.	As certified, -----	3755
-2.56	2-4	11.35	12-14	3.00	Cracked corn, oats, barley, shredded alfalfa, molasses and salt $\frac{3}{4}$ of 1%.	Cracked corn, oats, barley, shredded alfalfa, molasses, salt and small amount whole weed seeds.	4514
2.23	-----	10.34	-----	3.10	-----	-----	-----
2.30	1.50	12.44	16.00	60.00	Corn, oats, alfalfa meal, molasses and salt.	As certified, -----	4325
3.21	1.50	16.87	16.00	3.00	Corn, oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3817
2.00	2.50	10.76	12.00	3.15	Corn, oats, alfalfa, molasses and salt.	As certified, -----	3824
1.91	2.00	12.44	15.00	3.25	Alfalfa, cracked corn, oats, barley and molasses.	Alfalfa meal, cracked corn, oats and molasses.	4062
3.02	2.00	11.03	15.00	62.50	Alfalfa, cracked corn, oats, barley and molasses.	As certified, -----	4539
2.47	-----	11.73	-----	63.75	-----	-----	-----
2.24	2.00	13.80	10.00	3.00	Corn, oats, alfalfa meal and cane syrup.	As certified, -----	4412
1.63	2.00	12.12	10.00	3.25	Corn, oats, alfalfa meal and cane syrup.	As certified, -----	4569
1.91	2.00	11.06	10.00	3.25	Corn, oats, alfalfa meal and cane syrup.	As certified, -----	4572
1.93	-----	12.32	-----	3.17	-----	-----	-----
5.22	4.00	11.17	10.00	2.70	Ground corn, hominy feed, linseed oil meal, ground oats, oat shorts, oat hulls, wheat midds, molasses $\frac{1}{2}$ of 1% salt.	Ground corn, hominy feed, linseed oil meal, ground oats, oat shorts, oat hulls, wheat middlings and salt.	4460

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
4050	INTERNATIONAL SUGAR FEED CO., MINNEAPOLIS, MINN. Dan Patch Horse Feed, -----	Flemington, J. Harold Long Milling Co.	Per cent. 12.73	Per cent. 13.77	Per cent. 9.00
4608	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Blue Top Horse Feed, -----	Monessen, J. A. Hagerson,	15.40	13.54	10.00
3808	Blue Top Horse Feed, -----	Harrisburg, Paxton Flour & Feed Co.	19.62	10.63	10.00
		Average, -----	17.51	12.09	-----
3790	Cream City Horse Feed, -----	Butler, H. J. Klingler & Co.	14.48	10.13	10.00
4496	Cream City Horse Feed, -----	Laceystown, A. L. Vanderwort.	14.63	12.52	10.00
		Average, -----	14.55	11.33	-----
4151	Crescent Horse Feed, -----	Altoona, Klepser Brothers,	14.26	12.08	10.00
4560	Krause Alfalfa Horse Feed, -----	Homer, Thomas K. George,	13.50	11.71	10.00
4660	Krause Alfalfa Horse Feed, -----	Frankstown, J. H. Rodkey.	14.43	11.53	10.00
		Average, -----	13.96	11.62	-----
4659	*N. R. G. Horse Feed, -----	Frankstown, J. H. Rodkey.	13.48	11.84	10.00
4416	THE LAKE SHORE ELEVATOR CO., CLEVELAND, OHIO. Harteno Horse Food, -----	Oil City, New Model Milling Co.	13.38	11.51	10.94
3809	LANCASTER MILL & ELEVATOR CO., LANCASTER, PA. Conestoga Horse Feed, -----	Harrisburg, Paxton Flour & Feed Co.	16.90	8.95	9.00
4394	Lancaster Alfalfa Horse Feed, -----	Coatesville, Handwork Brothers.	17.17	10.45	10.00
3737	Red Rose Horse Feed, -----	Easton, The Eastern Flour & Feed Co.	12.22	11.19	10.00
4427	J. H. LAVERY'S SONS, FRANKLIN, PA. Franklin Horse Feed, -----	Franklin, J. H. Lavery's Sons.	13.99	10.41	10.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber. Guaranteed. Fcnd.		Price per ton or cwt. Guaranteed.	Certified Composition.	Identified by Micro- scopical Examination.	Chemist's number.	
Per ct. 2.68	Per ct. 3.00	Per ct. 12.95	Per ct. 15.00	\$ 3 00	Oats, cracked corn, alfalfa, molasses and salt.	As certified, -----	4050
2.47	1.00	8.50	16.00	3 25	Corn, oats, alfalfa meal, molasses and salt.	As certified, -----	4608
2.48	1.00	14.47	16.00	3 20	Corn, oats, alfalfa meal, molasses and salt.	As certified, -----	3808
2.48	-----	11.48	-----	3 23	-----	As certified, -----	/
3.56	1.50	14.12	14.00	3 00	Corn, oats, alfalfa meal, molasses and salt.	As certified, -----	3790
2.12	1.50	13.08	14.00	3 25	Corn, oats, alfalfa meal, molasses and salt.	Corn, oats, alfalfa meal, molasses, salt and small amount whole weed seeds.	4496
2.84	-----	13.60	-----	3 13	-----	As certified, -----	4151
2.17	1.50	10.73	16.00	3 25	Corn, oats, alfalfa, oat hulls, oat middlings, oat shorts, molasses and salt.	-----	-----
2.33	2.50	10.21	10.00	3 25	Corn, oats, alfalfa meal, salt and mo- lasses.	As certified, -----	4560
2.71	2.50	10.13	10.00	3 25	Corn, oats, alfalfa meal, salt and mo- lasses.	As certified, -----	4660
2.52	-----	10.17	-----	3 25	-----	-----	-----
3.79	3.00	8.63	10.00	3 50	Cracked corn, crushed oats, alfalfa, mo- lasses and salt.	As certified, -----	4659
4.47	4.25	8.03	6.90	3 75	Oats, corn, bran, O meal, molasses and a small quantity of salt.	Corn, oats, wheat bran, molasses and salt.	4416
3.55	2.00	13.41	16.00	3 20	Cracked corn, crushed oats, alfalfa, timothy meal, clover, cane mo- lasses and $\frac{1}{2}$ of 1% salt.	Cracked corn, crushed oats, alfalfa meal, timothy meal, clover, cane molasses and salt. Mouldy and damaged.	3809
2.87	2.00	9.40	16.00	3 30	Alfalfa meal, cracked corn, crushed oats, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	4394
4.46	3.00	10.61	14.00	3 00	Cracked corn, crushed oats, alfalfa meal, molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3737
4.05	4.00	7.49	9.00	3 40	Crimped oats, cracked corn, wheat bran and molasses.	As certified, -----	4427

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3661	NOWAK MILLING CORPORATION, BUFFALO, N. Y. Domino Horse Feed with Alfalfa, ---	Myerstown, E. L. Bleistein,	Per et. 16.20	Per ct. 11.09	Per et. 9.00
3829	Domino Horse Feed with Alfalfa, ---	Swatara, John B. Curry Estate.	13.71	11.10	9.00
3830	Domino Vim-O-Lene Horse Feed, ---	Average, ----- Swatara, John B. Curry Estate.	14.95 11.87	11.10 10.24	----- 9.00
4663	Domino Vim-O-Lene Horse Feed, ---	Elizabethtown, M u t h Brothers.	15.17	11.21	8.00
4117	OMAHA ALFALfA MILLING CO., OMAHA, NEB. Peerless Horse Feed, -----	Average, ----- South Brownsville, C. D. Chamberlain.	13.52 14.49	10.73 12.52	----- 9.00
4644	Perfection Horse Feed, -----	York, Anderson Brothers & Co.	13.80	11.67	9.00
4118	Perfection Horse Feed, -----	South Brownsville, C. D. Chamberlain.	14.81	10.79	9.00
4131	F. V. PERRY, SCOTTDALE, PA. Alfalfa Horse Feed, -----	Average, ----- Scottdale, F. V. Perry, --	14.30 14.59	11.23 10.96	----- 10-13
3695	M. C. PETERS MILL CO., OMAHA, NEB. Peters' June Pasture Alfalfa & Molasses Feed.	Scottdale, J. E. Pritts, --	12.76	12.64	10.00
3693	Peters' King Corn Horse and Mule Feed.	Dunbar, Hardy & Porter, --	15.50	11.98	10.00
3725	Peters' King Corn Horse and Mule Feed.	Wilkinsburg, Johnston & Smith.	17.52	11.34	10.00
4610	Peters' Re-Peter Horse Feed, -----	Average, ----- Monongahela City, D. E. Gamble.	16.51 15.82	11.66 11.95	----- 10.00
4622	Peters' Sell-A-Gen Horse and Mule Feed.	Charleroi, R. C. Mountser,	13.52	14.45	10.00
3999	PRAIRIE STATE MILLING CO., CHICAGO, ILL. Emerald Brand Horse Feed, -----	Johnstown, J. H. Hershberger & Son.	15.67	11.93	10.00
4056	Emerald Brand Horse Feed, -----	Carnegie, Riehey & McFarland.	13.77	12.02	10.00
		Average, -----	14.72	11.98	-----

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.91	Per ct. 2.50	Per ct. 14.79	Per ct. 12.00	\$ 3 00	Cracked corn, crushed oats, whole oats, ground alfalfa, molasses and $\frac{3}{4}$ of 1% salt.	As certified, -----	3661
2.18	2.06	14.61	12.00	3 10	Cracked corn, crushed oats, whole oats, ground alfalfa, molasses and $\frac{3}{4}$ of 1% salt.	As certified, -----	3829
3.05	-----	14.70	-----	3 05	Crushed oats, cracked corn, corn feed meal, wheat bran, molasses and $\frac{3}{4}$ of 1% salt.	As certified, -----	3830
4.34	2.00	7.52	9.00	3 30	Crushed oats cracked corn, corn feed meal, wheat bran, molasses and $\frac{3}{4}$ of 1% salt.	As certified, -----	4663
4.90	2.00	6.37	9.00	3 30	Crushed oats cracked corn, corn feed meal, wheat bran, molasses and $\frac{3}{4}$ of 1% salt.	As certified, -----	4117
4.62	-----	6.94	-----	3 30	Corn, oats, alfalfa meal and molasses.	Corn, oats, alfalfa meal, barley and molasses.	4644
2.64	1.50	10.32	18.00	3 15	Corn, oats, alfalfa meal and molasses.	Corn, oats, alfalfa, molasses and small amount small whole weed seeds.	4118
2.23	2.00	9.01	15.00	62 00	Corn, oats, alfalfa and molasses.	Corn, oats, barley, alfalfa and molasses.	4131
2.34	2.00	11.21	15.00	3 25	-----	As certified, -----	3695
2.29	-----	10.11	-----	63 50	Cracked corn, oats, bran, alfalfa, corn bran and molasses.	As certified, -----	3693
4.21	3-5	7.46	6-9	4 20	Pure alfalfa meal, light with molasses.	As certified, -----	3725
1.11	0.50	21.66	26.00	2 30	Corn, oats, alfalfa and molasses.	As certified, -----	4610
2.15	1.50	14.64	18.00	3 25	Corn, oats, alfalfa and molasses.	As certified, -----	4622
2.01	1.50	14.92	18.00	3 15	Corn, oats, alfalfa and molasses.	As certified, -----	4056
2.98	-----	14.33	-----	3 20	Corn, oats, alfalfa and molasses.	As certified, -----	3999
2.54	1.5	12.15	18.00	3 15	Oats, alfalfa and molasses.	As certified, -----	4056
2.95	2.00	14.64	20.00	3 10	Cracked corn, oats, barley, alfalfa meal and molasses.	As certified, -----	-----
3.00	2.00	12.30	12.00	2 25	Cracked corn, oats, barley, alfalfa meal and molasses.	As certified, -----	-----
2.60	2.00	12.00	12.00	3 25	Cracked corn, oats, barley, alfalfa meal and molasses.	As certified, -----	-----
2.83	-----	12.15	-----	3.5	-----	-----	-----

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3700	J. E. PRITTS, SCOTTDALE, PA. *Pritts' Alfalfa Horse Feed, -----	Scottdale, J. E. Pritts, -----	Per et. 11.69	Per et. 17.38	Per et. 14-16
4009	THE QUAKER OATS CO., CHICAGO, ILL. *Green Cross Horse Mixed Feed with Molasses.	Somerset, H. C. Beerits' Sons.	16.79	10.34	10.00
3822	*Green Cross Horse Mixed Feed with Molasses.	Penbrook, O. S. Ebersole,	13.78	11.44	10.00
3687	*Green Cross Horse Mixed Feed with Molasses.	Fairchance, A. M. Frederick, Jr.	12.64	10.67	10.00
4508	*Green Cross Horse Mixed Feed with Molasses.	Clarion, A. C. Snyder & Son.	14.69	11.72	10.00
3671	*Green Cross Horse Mixed Feed with Molasses.	Lebanon, E. Strickler's Sons.	12.86	10.01	10.00
4012	RALSTON PURINA CO., ST. LOUIS, MO. Good Luck Feed with Molasses, -----	Average, -----	14.15	10.84	-----
3662	Good Luck Feed with Molasses, -----	Somerset, H. C. Beerits' Sons.	15.78	10.61	9.00
4699	Good Luck Feed with Molasses, -----	Myerstown, E. L. Bleistein.	12.71	10.69	9.00
3930	Good Luck Feed with Molasses, -----	Philadelphia, Ezl. Dunwoody Co.	13.83	12.70	9.00
3766	Good Luck Feed with Molasses, -----	Lansdale, A. C. Godshall Co., Inc.	14.90	10.24	9.00
		Latrobe, Latrobe Feed Supply Co.	12.75	11.43	9.00
		Average, -----	13.99	11.13	-----

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et. 5.24	Per et. 4.5-6	Per ct. 6.63	Per et. 12.00	\$ 3 35	Alfalfa meal, wheat bran, wheat middlings, corn oil meal, oats and molasses.	As certified, -----	3700
2.37	2.50	11.50	12.00	3 25	Alfalfa meal, ground corn, crushed oats, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	4009
2.94	2.50	10.94	12.00	3 25	Alfalfa meal, ground corn, crushed oats, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3822
3.07	2.50	12.61	12.00	3 50	Alfalfa meal, ground corn, crushed oats, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3687
2.91	2.60	11.33	12.00	3 50	Alfalfa meal, ground corn, crushed oats, cottonseed meal, oat meal, mill by-product, (oat middlings, oat hulls, oat shorts), molasses, distillers' molasses residue and $\frac{1}{2}$ of 1% salt.	As certified, -----	4508
2.81	2.50	12.26	12.00	2 90	Alfalfa meal, ground corn, crushed oats, cottonseed meal, oat meal, mill by-product, (oat middlings, oat hulls, oat shorts), molasses and $\frac{1}{2}$ of 1% salt.	As certified, -----	3671
2.82	-----	11.72	-----	3 28			
2.53	1.50	10.95	15.00	3 25	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	4012
2.65	1.50	16.09	15.00	3 00	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	3662
2.58	1.50	11.56	15.00	59.00	Cracked corn, oats ground alfalfa, molasses and 1% salt.	As certified, -----	4699
2.19	1.50	13.28	15.00	3 00	Cracked corn, oats ground alfalfa, molasses and 1% salt.	As certified, -----	3930
2.53	1.50	14.73	15.00	3 00	Cracked corn, oats ground alfalfa, molasses and 1% salt.	As certified, -----	3766
2.50	-----	13.32	-----	60 80			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3631	O. K. Feed with Molasses, -----	Huntingdon, Huntingdon Milling Co.	Per et. 14.92	Per et. 11.41	Per et. 9.00
4347	Purina Feed with Molasses, -----	Toughkenamon, H. A. Mendenhall.	15.86	9.92	9.30
4693	Purina O-Molene Feed, -----	Philadelphia, Ezl. Dunwoody Co.	13.94	11.36	9.70
3749	Purina O-Molene Feed, -----	Doylestown, J. W. Stilwagon & Son.	13.37	10.16	9.70
4457	Purina O-Molene Feed, -----	Erie, West Side Feed Co.,	12.74	11.78	8.70
		Average, -----	13.35	11.10	-----
4124	SUTHERLAND FLOUR MILLS CO., CAIRO, ILL. Velvet Molasses Feed, -----	New Salem, M. Duyava,--	14.55	10.03	9.00
4618	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's Invincible Alfalfa Feed,----	Charleroi, R. C. Mountser,	15.06	12.96	10.00
3885	Camp's Invincible Alfalfa Feed, ----	Munson, Jacob Smuttinger.	13.67	11.76	10.00
		Average, -----	14.37	12.36	-----
4694	WASH-CO. ALFALFA MILLING CO., FORT CALHOUN, NEB. Alfalgreen, -----	Philadelphia, Ezl. Dunwoody Co.	12.30	14.95	12.00
3951	F. S. WERTZ & SON, READING, PA. Our Own Alfalfa-Molasses Horse and Mule Feed.	West Point, L. W. Matern.	15.74	10.40	9.00
4639	THE WESTERN GRAIN PRODUCTS CO., HAMMOND, IND. Calumet Alfalfa Horse Feed, -----	York, Strayer Brothers Co.	13.36	12.23	10.00
	PROPRIETARY CALF MEALS.				
3712	AMERICAN MILLING CO., PEORIA, ILL. Sucrene Calf Meal, -----	Braddock, Braddock Feed & Supply House.	11.68	18.75	20.00
4695	Cuerene Calf Meal, -----	Philadelphia, Ezl. Dunwoody Co.	9.56	21.75	20.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or ewt.	Certified Composition.	Identified by Microscopic Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct 2.63	Per ct. 1.50	Per ct. 12.59	Per ct. 15.00	\$ 3 00	Cracked corn, oats ground alfalfa, molasses and 1% salt.	As certified, -----	3631
3.12	1.70	9.91	13.00	3 30	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	4347
4.29	3.20	7.66	8.00	64 00	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	4693
4.31	3.20	8.51	8.00	3 30	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	3749
3.73	3.20	6.52	8.00	68 00	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified, -----	4457
4.11	-----	7.56	-----	66 00			
2.82	2.00	8.44	12.00	3 00	Cracked corn, oat feed, grain screenings, alfalfa meal and molasses.	Cracked corn, oat middlings, oat hulls, grain screenings, alfalfa meal and molasses. Damaged. Insects present.	4124
3.09	2.00	14.11	12.00	3 10	Corn, oats, alfalfa meal and molasses.	As certified, -----	4618
2.77	2.00	12.41	12.00	3 25	Corn, oats, alfalfa meal and molasses.	As certified, -----	3885
2.93	-----	13.26	-----	3 18			
0.92	0.50	16.41	25.00	52 00	Alfalfa meal and molasses.	As certified, -----	4694
3.94	2.00	11.87	15.00	3 25	Crushed oats, cracked corn, alfalfa and molasses.	As certified, -----	3951
2.34	2.50	9.27	15.00	3 20	Crushed corn, oats, alfalfa meal, linseed meal, molasses and salt.	As certified, -----	4639
3.34	4.00	3.48	3.00	4 75	Soluble blood flour, bone meal, soluble starch, malt flour, dried skim milk, corn meal, linseed meal and flour middlings.	As certified, -----	3712
4.03	4.00	3.57	3.00	4 75	Soluble blood flour, bone meal, soluble starch, malt flour, dried skim milk, corn meal, flaxseed meal and flour middlings.	As certified, -----	4695

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4216	Sucrene Calf Meal, -----	Coudersport, Eulalia Mills,	Per et. 9.98	Per et. 22.19	Per et. 20.00
4682	Sucrene Calf Meal, -----	Ebensburg, A. Skelly, -----	10.71	23.50	20.00
4033	ARCADY FARMS MILLING CO., RONDOUT, ILL. Arcady Calf Meal, -----	Average, ----- Centerville. Stewart & Kirk.	10.48	21.55	-----
3791	THE BLATCHFORD CALF MEAL FACTORY, WAUKEGAN, ILL. Blatchford's Calf Meal, -----	Butler, H. J. Klinger & Co.	10.61	25.38	24.90
4094	Blatchford's Calf Meal, -----	East Stroudsburg, J. M. Wyckoff.	9.90	27.69	24.00
4340	CLOVER LEAF MILLING CO., BUFFALO, N. Y. Clover Leaf Mills Calf Meal, -----	Average, ----- Oxford. Oxford Grain & Hay Co.	10.25	26.54	-----
4045	CONTINENTAL CONDENSED MILK CO., MILL HALL, PA. Calf Meal, -----	Mill Hall, Continental Condensed Milk Co.	9.02	33.50	-----
4675	JOHN W. ESHELMAN, LANCAS-TER, PA. Calf Meal, -----	Laneaster, John W. Eshelman.	10.50	24.69	16-18

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or ewt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$ 5.50	Soluble blood flour, bone meal, soluble starch, malt flour, dried skim milk, corn meal, linseed meal and flour middlings.	As certified, -----	4216
3.50	4.00	3.74	3.00				
3.45	4.00	3.97	3.00	5.00	Soluble blood flour, bone meal, soluble starch, malt flour, dried skim milk, corn meal, linseed meal and flour middlings.	As certified, -----	4682
3.58	-----	3.69	-----	5.00			
5.86	5.00	5.35	7.00	4.25	Wheat flour, malt flour, linseed oil meal, cottonseed oil meal, powdered milk, oat meal and salt.	As certified, -----	4033
6.44	5.00	6.45	6.75	5.20	Locust bean meal, unpressed flaxseed, wheat flour, blood flour, barley and malt sprouts meal, ground beans and peas, rice polish, old process oil meal, coca shell meal, cocoanut meal, recleaned cottonseed meal, foenugreek, dried milk, anise and salt.	As certified, -----	3791
7.48	5.00	5.92	6.75	5.30	Locust bean meal, unpressed flaxseed, wheat flour, blood flour, barley and malt sprouts meal, ground beans and peas, rice polish, old process oil meal, coca shell meal, cocoanut meal, recleaned cottonseed meal, foenugreek, dried milk, anise and salt.	As certified, -----	4094
6.96	-----	6.18	-----	5.25			
5.35	5.00	4.67	7.00	5.00	Wheat flour, linseed oil meal, cottonseed meal, pulverized malt flour, oat meal, powdered milk and $\frac{1}{2}$ of 1% salt.	As certified, -----	4340
5.85	-----	6.41	-----	5.00	Hominy feed, dried blood, wheat middlings and oil meal.	As certified, -----	4045
4.43	3.4	3.32	2-3	4.40	Cooked and baked wheat feed, wheat flour, linseed meal, wheat middlings, pure ground flaxseed, oat meal and blood meal.	Cooked and baked wheat feed, wheat flour, linseed oil meal, wheat middlings, ground flaxseed, oat meal, blood flour and ground Kaffir corn.	4675

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4000	INTERNATIONAL SUGAR FEED CO., MINNEAPOLIS, MINN. International Grofast Calf Meal, -----	Johnstown, J. H. Hershberger & Son.	Per ct. 9.75	Per ct. 27.81	Per ct. 25.00
3691	THE QUAKER OATS CO., CHICAGO, ILL. Schumacher Calf Meal, -----	Fairchance, A. M. Frederick, Jr.	7.92	18.50	18.00
4270	Schumacher Calf Meal, -----	Towanda, F. H. Hagerman.	9.24	18.50	18.00
4418	Schumacher Calf Meal, -----	Oil City, New Model Milling Co.	8.70	20.38	18.00
4206	Schumacher Calf Meal, -----	Westfield, H. Z. Pride & Son.	7.64	18.88	18.00
3664	RALSTON PURINA CO., ST. LOUIS, MO. Purina Calf Chow, -----	Average, ----- Myerstown, E. L. Bleistein.	8.37	19.07	-----
4475	Purina Calf Chow, -----	Bellefonte, C. R. Danenhower & Son.	10.40	35.50	33.00
3897	Purina Calf Chow, -----	Mechanicsburg, M. C. Dietz & Son.	11.76	33.31	33.00
4194	RYDE & CO., CHICAGO, ILL. Ryde's Cream Calf Meal, -----	Average, ----- Knoxville, Deerfield Milling Co.	10.19	33.50	33.00
3796	Ryde's Cream Calf Meal, -----	Butler, P. J. Oesterling & Son.	10.78	34.10	-----
3990	Ryde's Cream Calf Meal, -----	Wycombe, Albert J. Thompson.	10.10	26.13	25.00
		Average, -----	9.93	25.19	25.00
		Average, -----	10.16	25.54	-----

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber. Guaranteed.	Fiber. Found.	Fiber. Guaranteed.	Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Per ct. 6.97	Per ct. 5.00	Per ct. 7.22	Per ct. 10.00	\$ 3.26	FoenuGreek seed, locust bean, linseed oil meal, cleaned grain screenings and red dog flour.	FoenuGreek seed, linseed oil meal, cleaned grain screenings and red-dog flour.	4000
8.20	8.00	2.56	1.00	5.00	Oat meal, wheat meal, ground flaxseed, milk albumen, cottonseed meal and $\frac{1}{2}$ of 1% bi-carbonate of soda.	As certified, -----	3698
8.69	8.00	1.97	4.00	5.20	Oat meal, wheat meal, ground flaxseed, milk albumen, old process linseed oil meal and $\frac{1}{2}$ of 1% bi-carbonate of soda.	As certified, -----	4270
8.85	8.00	2.10	4.00	2.90	Oat meal, wheat meal, ground flaxseed, milk albumen, old process linseed oil meal, blood meal and $\frac{1}{2}$ of 1% bi-carbonate of soda.	As certified, -----	4418
9.52	8.00	2.53	4.00	6.00	Oat meal, wheat meal, ground flaxseed, milk albumen, old process linseed oil meal and $\frac{1}{2}$ of 1% bicarbonate of soda.	As certified, -----	4206
8.82	-----	2.29	-----	4.78			
3.57	4.00	3.25	3.50	5.00	Blood flour, linseed meal, hominy feed and wheat flour.	As certified, -----	3664
3.63	4.00	3.30	3.50	5.25	Blood flour, linseed meal, hominy feed and wheat flour.	As certified, -----	4475
4.52	4.00	3.19	3.50	4.75	Blood flour, linseed meal, hominy feed and wheat flour.	As certified, -----	3897
3.91	-----	3.24	-----	5.00			
5.19	5.00	6.92	6.00	4.45	Ground flaxseed, wheat flour, locust bean meal, recleaned cottonseed meal, blood flour, beans and lentils, cocoa shell meal, hominy feed, foenuGreek, anise and salt.	As certified, -----	4194
5.46	5.00	7.09	6.00	3.90	Ground flaxseed, wheat flour, locust bean meal, recleaned cottonseed meal, blood flour, beans and lentils, cocoa shell meal, hominy feed, foenuGreek, anise and salt.	As certified, -----	3796
5.13	5.00	7.17	6.00	5.00	Ground flaxseed, wheat flour, locust bean meal, recleaned cottonseed meal, blood flour, beans and peas, cocoa shell meal, hominy feed, foenuGreek, anise and salt.	As certified, -----	3990
5.26	-----	7.06	-----	4.45			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4207	THE SUGARINE CO., PEORIA, ILL. Sugarine Calf Meal, -----	Westfield, H. Z. Pride & Son.	Per ct. 9.92	Per ct. 22.50	Per ct. 20.00
PROPRIETARY SWINE FEEDS.					
4645	AMERICAN MILLING CO., PEORIA, ILL. Sucrene Hog Meal, -----	York, Anderson Brothers & Co.	10.41	21.56	18.96
4696	Sucrene Hog Meal, -----	Philadelphia, Ezl. Dunwoody Co.	9.75	20.94	18.00
4005	Sucrene Hog Meal, -----	Somerset, John G. Emert,	12.92	19.88	18.00
4680	Sucrene Hog Meal, -----	Ebensburg, A. Skelly, ---	9.45	25.38	18.00
4631	ARCADY FARMS MILLING CO., CHICAGO, ILL. *R. K. D. Hog Meal with Hunus, ---	Average, ----- Centerville, Stewart & Kirk.	10.63 14.11	21.94 19.88	----- 18.00
3655	THE BLATCHFORD CALF MEAL FACTORY, WAUKEGAN, ILL. Blatchford's Pig Meal, -----	Sunbury, Black & Gottshall.	9.91	21.00	18.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber. Guaranteed.	Fiber. Found.	Fiber. Guaranteed.	Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Per cent. 3.43	Per cent. 4.00	Per cent. 3.45	Per cent. 3.00	6 00	Soluble blood flour, bone meal, soluble starch, malt flour, dried skim milk, corn meal, linseed meal and flour middlings.	As certified, -----	4207
5.03	4.00	5.50	14.00	71 00	Molasses, corn germ meal, corn feed meal, peanut oil meal, alfalfa meal, linseed meal, blood flour, palm kernel meal, calcium carbonate and salt.	As certified, -----	4645
5.00	4.00	5.66	14.00	3 60	Molasses, corn germ meal, corn feed meal, peanut oil meal, alfalfa meal, linseed meal, blood flour, palm kernel meal, calcium carbonate and salt.	Molasses, corn germ meal, corn feed meal, peanut oil meal, alfalfa meal, linseed oil meal, blood flour, coconut oil meal, calcium carbonate and salt.	4606
4.55	4.00	4.19	14.00	3 50	Molasses, alfalfa meal, corn feed meal, corn germ meal, corn, distillers' dried grains and solubles, blood flour, linseed meal, palm kernel meal, calcium carbonate and salt.	As certified, -----	4005
3.80	4.00	6.50	14.00	3 50	Molasses, alfalfa meal, corn feed meal, corn germ meal, corn distillers' dried grains and solubles, blood flour, linseed meal, palm kernel meal, calcium carbonate and salt.	As certified, -----	4680
4.60	5.46	-----	70 75				
5.95	5.00	6.89	10.00	3 35	Old process oil meal, digester tankage, corn feed meal, corn germ meal, wheat middlings with screenings not to exceed mill run, cleaned ground and bolted grain screenings, humus and $\frac{1}{2}$ of 1% salt.	Old process oil meal, digester tankage, corn feed meal, corn germ meal, wheat middlings with mill run ground screenings, cleaned ground and bolted grain screenings, humus, salt and small amount small whole weed seeds.	4031
4.88	5.00	6.32	7.00	4 40	Linseed oil meal, bean and locust bean meal, oat meal, blood flour, wheat flour, barley and malt sprout meal, recleaned cottonseed meal, rice polish, corn meal, cocoa shell meal, crushed flaxseed, anise and salt.	As certified, -----	3655

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.		
				Found.	Guaranteed.	
3792	Blatchford's Pig Meal, -----	Butler, H. J. Klingler & Co.	Per et. 9.74	Per et. 21.63	Per et. 18.00	
		Average, -----	9.82	21.32	-----	
3854	*Blatchford's Tankage Hog Ration, -----	Sunbury, Blank & Gottshall.	8.28	35.25	40.00	
3895	*Blatchford's Tankage Hog Ration, CORN PRODUCTS REFINING CO., NEW YORK, N. Y.	Mechanicsburg, M. C. Dietz & Son.	8.88	35.56	40.00	
		Average, -----	8.58	35.41	-----	
4086	Diamond Hog Meal, -----	Greenville, J. W. Nelson, -----	7.89	18.69	18.00	
4070	Diamond Hog Meal, -----	Farrell, J. B. Roux, -----	9.40	19.94	18.00	
4314	Diamond Hog Meal, -----	Washington, Washington Milling Co.	7.69	20.06	18.00	
4083	Diamond Hog Meal, -----	Greenville, D. B. Webber, Average, -----	8.37	18.94	18.00	
		8.33	19.41	-----		
	THE ALBERT DICKINSON CO., CHICAGO, ILL.					
4520	*Rival Hog Feed, -----	Montrose, Harrington & Wilson.	10.25	16.94	12.50	
4502	*Rival Hog Feed, -----	Blairsville, J. A. McKelvey.	11.18	15.44	12.50	
	JOHN W. ESHELMAN, LANCASTER, PA.	Average, -----	10.71	16.19	-----	
4672	Eshelman's Hog Meal, -----	Laneaster, John W. Eshelman.	7.75	21.69	16.00	
	HALES & EDWARDS CO., CHICAGO, ILL.					
4428	Pioneer Hog Feed with Dried Butter-milk.	Franklin, J. H. Lavery's Sons.	11.72	14.63	12.00	

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Guaranteed. Fat.	Fiber.		Price per ton or cwt. \$	Certified Composition.	Identified by Micro- scopical Examination.	Chemist's number.
	Found.	Guaranteed. Found.				
Per ct. 6.31	Per ct. 5.00	Per ct. 6.59	Per ct. 7.00	\$ 5.20	Old process oil meal, barley and malt sprouts meal, oat, corn, locust bean, cottonseed and cocoa shell meals, blood flour, ground beans and peas, unpressed flaxseed, wheat flour, rice polish, anise and salt.	As certified, ----- 3792
5.60	-----	6.45	-----	4.80		
8.97	7.50	8.69	7.75	4.25	Locust bean meal, digester tankage, rice meal, alfalfa meal, linseed meal and wheat middlings.	As certified, ----- 3654
7.42	7.50	6.74	7.75	4.50	Locust bean meal, digester tankage, rice meal, alfalfa meal, linseed meal and wheat middlings.	As certified, ----- 3895
8.20	-----	7.71	-----	4.38		
13.25	7.00	8.45	13.00	3.25	Corn oil cake meal, -----	As certified, ----- 4086
11.45	7.00	9.48	18.00	3.25	Corn oil cake meal, -----	As certified, ----- 4070
14.32	7.00	8.82	13.00	3.10	Corn oil cake meal, -----	As certified, ----- 4314
12.74	7.00	8.43	13.00	3.25	Corn oil cake meal, -----	As certified, ----- 4083
12.94	-----	8.79	-----	3.21		
4.00	3.00	8.20	12.50	3.00	Linseed oil meal, ground corn bran, corn feed meal, alfalfa meal, ground screenings (from wheat, oats, barley, Kaffir corn) and salt.	As certified, ----- 4520
4.13	3.00	7.85	12.50	3.40	Linseed oil meal, ground corn bran, corn feed meal, alfalfa meal, ground screenings (from wheat, oats, barley, Kaffir corn) and salt.	As certified, ----- 4503
4.07	-----	8.02	-----	3.20		
3.85	5.00	4.97	4.50	65.00	Ten per cent. digester tankage, ground corn, ground rye, ground grain screenings, wheat middlings, charcoal and ground barley.	As certified, ----- 4672
4.13	3.00	6.57	12.00	3.90	Wheat middlings, corn feed meal, linseed oil meal, ground and bolted wheat, barley, Kaffir screenings and dried butter-milk.	As certified, ----- 4428

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4048	INTERNATIONAL SUGAR FEED CO., MINNEAPOLIS, MINN. International Hog Feed and 5% Charcoal.	Flemington, J. Harold Long Milling Co.	Per et. 10.87	Per ct. 22.69	Per et. 22.50
3890	International Hog Feed and 5% Charcoal.	Butler, P. J. Oesterling & Son.	11.71	23.00	22.50
		Average, -----	11.29	22.85	-----
4681	Climax Hog Feed and 5% Charcoal,	Ebensburg, A. Skelly, -----	11.15	18.44	15.00
3939	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Krause Hog Feed, -----	West Point, Heebner & Kreibel.	9.83	15.75	15.00
3795	Krause Hog Feed, -----	Butler, H. J. Klingler & Co.	10.34	15.94	15.00
3888	Krause Hog Feed, -----	Clearfield, J. T. Murphy,--	9.53	17.69	15.00
4538	Krause Hog Feed, -----	Lewisburg, E. C. Noll, --	9.45	23.06	15.00
3785	THE LAKE SHORE ELEVATOR CO., CLEVELAND, OHIO. Golden Hog Feed, -----	Average, ----- Butler, Thompson & Glenn,	9.78 13.50	18.11 9.62	----- 20.00
4302	THE PARK & POLLARD CO., BOSTON, MASS. *Gotuit Hog Ration, -----	Allentown, The George B. Shelly Estate.	9.83	20.50	15.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
5.40	5.00	12.18	12.00	3 30	Old process oil meal, tankage, molasses, grain middlings, charcoal and salt.	Old process oil meal, tankage, molasses, ground grain screenings, charcoal and salt.	4048
5.30	5.00	10.76	12.00	3 00	Old process oil meal, tankage, molasses, grain middlings, charcoal and salt.	Old process oil meal, tankage molasses, ground grain screenings, charcoal and salt.	3800
5.35	-----	11.47	-----	3 15			
4.30	3.50	13.60	18.50	3 30	Old process linseed oil meal, tankage, molasses, grain middlings, ground delinted cottonseed hulls, corn and 5% charcoal.	Old process linseed oil meal, tankage, molasses, ground grain screenings, ground delinted cottonseed hulls, corn and charcoal.	4681
5.00	5.00	6.41	9.00	68 00	Hominy feed, corn germ meal, wheat middlings, digester tankage, alfalfa, wheat bran, corn feed meal and salt.	As certified, -----	3939
6.22	5.00	7.32	9.00	3 50	Hominy feed,, corn germ meal, wheat middlings, digester tankage, alfalfa, wheat bran, corn feed meal and salt.	As certified, -----	3795
6.66	5.00	5.81	9.00	3 50	Hominy feed, corn germ meal, wheat middlings, digester tankage, alfalfa, wheat bran, corn feed meal and salt.	As certified, -----	3888
5.13	5.00	4.92	9.00	3 50	Hominy feed, corn germ meal, wheat middlings, rye middlings, peanut oil meal, tankage, alfalfa, wheat bran, corn feed meal, velvet bean feed and salt.	Hominy feed, corn germ meal, wheat middlings, rye middlings, peanut oil meal, tankage, alfalfa, wheat bran, corn feed meal and salt.	4538
5.75	-----	6.11	-----	69 50			
2.97	5.00	18.67	10.00	2 50	Oil meal, tankage, charcoal, wheat and sugar.	Linseed oil meal, ground flax screenings, tankage, wheat, corn, corn gluten feed, ground cocoa shells and molasses.	3785
8.23	6.00	6.45	13.00	3 25	Cocoanut oil meal, velvet bean meal, peanut oil feed, rice bran, old process linseed oil meal, alfalfa meal, hominy meal, oat hulls oat middlings, oat shorts, fish, meat, bone, corn meal, corn germ meal, wheat middlings, calcium hydroxide, calcium carbonate and salt.	As certified. -----	4302

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3701	J. E. PRITTS, SCOTTDALE, PA. *Alfalfa Pig Feed, -----	Scottdale, J. E. Prittss,-----	Per et. 13.11	Per et. 20.25	Per et. 16-18
4010	RALSTON PURINA CO., ST. LOUIS, MO. Purina Pig Chow, -----	Somerset, H. C. Beerits' Sons.	13.71	15.47	14.00
4530	Purina Pig Chow with Charcoal, -----	Centre Hall, Bradford & Son.	13.63	15.02	14.00
4388	Purina Pig Chow with Charcoal, -----	Downington, H. C. Clarkson.	11.06	15.43	14.00
4600	Purina Pig Chow with Charcoal, -----	Honesdale, Honesdale Milling Co.	13.18	14.45	14.00
4442	Purina Pig Chow with Charcoal, -----	Reading, The Obold Hardware Co.	11.10	14.68	14.00
4317	Purina Pig Chow with Charcoal, ---	Washington, Washington Grain & Feed Co.	15.26	15.59	14.00
4544	Purina Pig Chow with Charcoal, -----	Irwin, T. F. Wilson, -----	12.65	16.24	14.00
PROPRIETARY CHOP FEEDS.			Average, -----	12.94	15.27
3797	J. J. BADENOCH CO., CHICAGO, ILL. *C. & O. Chop, -----	Butler, P. J. Oesterling & Son.	8.50	11.06	8.00
4161	THE COMMERCIAL MILLING CO., DETROIT, MICH. Henkel's Chop Feed, -----	Wellsboro, Farmers' Feed Store.	10.41	11.81	8.50
4473	CLAYTON ETTERS, OAK HALL STATION, PA. Choiee Chop, -----	Bellefonte, N. J. Hockman,	11.20	11.06	8-9.5
4183	GLOBE ELEVATOR CO., BUF- FALO, N. Y. C. O. & B. Chop, -----	Westfield, F. A. Ackley,--	10.98	11.69	8-10
4159	O. O. & B. Chop, -----	Emporium, E. J. Rogers,	11.59	11.50	8-10
Average, -----			11.28	11.60	-----

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber. Guaranteed. Found.			Certified Composition. Price per ton or ewt.	Identified by Micro- scopical Examination.	Chemist's number.	
Per ct. 3.32	Per ct. 3-4	Per ct. 5.51	Per ct. 4.5-6.5	\$ 3 55	Corn chop, wheat middlings, alfalfa meal, low grade flour, digester tankage, molasses and charcoal.	As certified, -----	3701
4.29	3.20	9.50	9.00	3 25	Corn feed meal, digester tankage, molasses, alfalfa meal, humus or peat and 1% salt.	Corn feed meal, digester tankage, molasses, alfalfa meal, humus, charcoal and salt.	4010
2.61	3.20	8.81	9.00	3 00	Hominy feed, corn feed meal, molasses, alfalfa, digester tankage, charcoal and 1% salt.	As certified, -----	4539
3.33	3.20	10.90	9.00	3 10	Ground corn, molasses, alfalfa, digester tankage, charcoal and 1% salt.	As certified, -----	4388
3.98	3.20	10.11	9.00	74 00	Hominy feed, corn feed meal, molasses, alfalfa, digester tankage, charcoal and 1% salt.	As certified, -----	4600
4.16	3.20	10.66	9.00	25	Ground corn, molasses, alfalfa, digester tankage, charcoal and 1% salt.	As certified, -----	4442
3.37	3.20	8.08	9.00	3 10	Ground corn, molasses, alfalfa, digester tankage, charcoal and 1% salt.	As certified, -----	4317
6.27	3.20	8.64	9.00	3 80	Hominy feed, corn feed meal, molasses, alfalfa, digester tankage, charcoal and 1% salt.	As certified, -----	4544
4.01	-----	9.52	-----	66 29			
5.89	3.00	10.62	12.00	2 90	Hominy feed, corn feed meal, oat middlings, oat shorts, oat hulls and salt.	As certified, -----	3797
5.92	3.50	6.09	10.00	2 80	Corn meal, rye and oat mids, oats and oat hulls.	Corn meal, corn bran, rye and oat middlings, oats and oat hulls.	4161
3.48	2-3.5	7.52	9.00	3 25	Whole ear corn, oats, barley and wheat bran.	As certified, -----	4473
3.83	3-5	6.08	15.00	3 30	Ground corn, ground oats and oat hulls, barley middlings, barley hulls, corn hominy feed and salt $\frac{3}{4}$ of 1%.	As certified, -----	4183
3.09	3-5	6.88	15.00	3 15	Ground corn, ground oats and oat hulls, barley middlings, barley hulls, corn hominy feed and salt $\frac{3}{4}$ of 1%.	As certified, -----	4159
3.46	-----	6.48	-----	3 23			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4224	No. 1 Chop Feed, -----	Canton, Canton Mercantile Co.	Per ct. 10.30	Per ct. 10.69	Per ct. 8-10
4494	No. 1 Chop Feed, -----	Meshoppen, Dickson Mill & Grain Co.	10.26	9.44	8.00
4014	No. 1 Chop Feed, -----	DuBois, J. F. Dinger Milling Co.	10.70	11.88	8.00
3970	No. 1 Chop Feed, -----	Reynoldsville, Fales Grocery Co.	8.78	10.19	8.00
4373	No. 1 Chop Feed, -----	St. Marys, Jacob & Keller Co.	10.35	8.69	8-10
3966	No. 1, Chop Feed, -----	Lindsey Station, Keystone Flour & Feed Co.	10.62	8.00	8.00
4292	KASCO MILLS, WAVERLY, N. Y.	Average, -----	10.16	9.82	-----
	Purity Chop Feed, -----	Ulster, O. F. Potter, -----	10.65	13.50	10.00
4162	THE LAKE ERIE MILLING CO., TOLEDO, OHIO.	-----	-----	-----	-----
	Mollett's C. O. & B. Chop, -----	Wellsboro, Farmers' Feed Store.	9.05	11.13	8-9
3879	J. O. REED, PHILIPSBURG, PA. *Reed's Rye No. 1 Chop, -----	Philipsburg, J. O. Reed,	11.58	11.63	10.00
3703	SUTTON & GREENAWALT, WEST NEWTON, PA. No. 2 Chop, -----	Scottsdale, City Feed Store,	13.46	11.44	9-11
3881	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's Little Wonder Chop Feed, -----	Philipsburg, Centre Milling Co.	9.65	8.88	9.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Found.	Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
	Found.	Guaranteed.	Found.	Guaranteed.				
Per et. 3.73	Per et. 3-5	Per et. 8.49	Per et. 15.00	\$ 2 55	Ground corn, ground oats and oat hulls, barley middlings, barley hulls, corn hominy feed and salt $\frac{1}{2}$ of 1%.	As certified, -----	4224	
3.23	3.00	9.95	9.00	2 80	Ground corn, ground oats and oat hulls, barley middlings, barley hulls, corn hominy feed and salt $\frac{3}{4}$ of 1%.	As certified, -----	4494	
3.81	3.00	8.89	9.00	3 25	Ground corn, ground oats and oat hulls, barley middlings, barley hulls, corn hominy feed and salt $\frac{3}{4}$ of 1%.	As certified, -----	4014	
6.21	3.00	11.57	9.00	3 50	Ground corn, ground oats and oat hulls, barley middlings, barley hulls, corn hominy feed and salt $\frac{3}{4}$ of 1%.	Ground corn, ground oats and oat hulls, barley middlings, barley hulls, corn hominy feed, salt and trace whole weed seeds.	3970	
3.60	3-5	12.87	15.00	3 60	Ground corn, ground oats and oat hulls, barley middlings, barley hulls, corn hominy feed and salt $\frac{3}{4}$ of 1%.	As certified, -----	4373	
2.92	3.00	10.79	9.00	3 50	Ground corn, ground oats and oat hulls, barley middlings, barley hulls, corn hominy feed and salt $\frac{3}{4}$ of 1%.	As certified, -----	3966	
3.92	-----	10.42	-----	3 20				
4.40	3.50	10.55	10.00	2 80	Hominy, corn feed meal, oat shorts, oat hulls, oat middlings, cottonseed meal and salt.	As certified, -----	4292	
3.40	3.5-4.5	7.74	8-9	2 95	Corn, oats, oat hulls, oat groats, oat middlings, corn meal offal, barley and $\frac{1}{2}$ of 1% salt.	Corn, oats, oat hulls, oat groats, oat middlings, corn meal offal and salt.	4162	
4.57	5.10	4.98	9.00	3 75	Corn, oats, rye and hominy meal.	As certified, -----	3879	
4.24	6-8	5.34	4-5	3 25	-----	Corn, oats and wheat,	3703	
4.34	3.50	9.26	9.00	3 00	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal mill by-products (oat groats, oat middlings, oat hulls) and $\frac{1}{2}$ of 1% fine salt.	As certified, -----	3881	

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4364	Camp's Little Wonder Chop Feed, --	Ridgway, Smith Brothers Co.	Per et. 9.92	Per et. 9.88	Per et. 8.00
4459	Camp's Little Wonder Chop Feed, --	Erie, West Side Feed Co.,	8.27	12.63	8.00
4053	Camp's Surprise Chop Feed, -----	Average, ----- Lock Haven, M. L. Claster.	9.28	10.30	----- 9.00
4366	Camp's Surprise Chop Feed, -----	St. Marys, Hall, Kaul & Hyde Co.	9.92	10.31	9.00
3622	Camp's Surprise Chop Feed, -----	Johnstown, Milling Co.	Johnstown	8.57	12.31
3716	Camp's Surprise Chop Feed, -----	McKeesport, Keystone Commercial Co.		11.48	9.56
4565	Camp's Surprise Chop Feed, -----	Indiana, St. Clair, Rinn & Co.		9.90	10.81
					9.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
4.08	4.00	8.75	8.00	3 75	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal mill by-products (oat groats, oat middlings, oat hulls) and $\frac{1}{2}$ of 1% fine salt.	As certified, -----	4364
3.10	4.00	11.10	8.00	55.00	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal mill by-products (oat groats, oat middlings, oat hulls) and $\frac{1}{2}$ of 1% fine salt.	Corn, oats, corn meal mill by-product (fine meal and siftings), oat groats, oat middlings, oat hulls, salt and large amount corn glumes.	4459
3.84	-----	9.70	-----	63 33	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat middlings, oat groats, oat hulls), wheat middlings and $\frac{1}{2}$ of 1% fine salt.	As certified, -----	4053
4.20	4.00	7.99	9.00	3 25	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat middlings, oat groats, oat hulls), wheat middlings and $\frac{1}{2}$ of 1% fine salt.	As certified, -----	
3.53	4.00	10.90	9.00	3 75	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat middlings, oat groats, oat hulls), wheat middlings and $\frac{1}{2}$ of 1% fine salt.	As certified, -----	4366
4.39	4.00	11.45	9.00	3 00	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat middlings, oat groats, oat hulls), wheat middlings and $\frac{1}{2}$ of 1% fine salt.	As certified, -----	3622
3.21	4.00	6.83	9.00	3 10	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat middlings, oat groats, oat hulls), wheat middlings and $\frac{1}{2}$ of 1% fine salt.	As certified, -----	3716
3.73	4.00	8.67	9.00	3 00	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat middlings, oat groats, oat hulls), wheat middlings and $\frac{1}{2}$ of 1% fine salt.	As certified, -----	4565

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4691	Camp's Surprise Chop Feed, -----	Johnstown, A. F. Stutzman & Sons.	Per et. 9.42	Per et. 12.13	Per et. 9.00
		Average, -----	9.85	11.02	-----
4385	TYRONE MILLING CO., TYRONE, PA. *No. 1 Chop, -----	Tyrone, Tyrone Milling Co.	11.15	12.56	9.05
	MISCELLANEOUS CHOP FEEDS.				
	CORN CHOPS.				
3733	BUSHKILL MILLING CO., EASTON, PA. Corn Chop, -----	Easton, Dull's Flour & Feed Store.	15.09	8.69	-----
4285	F. A. GREENE, SMETHPORT, PA. *Bolted Kiln Dried Corn Meal, -----	Smethport, F. A. Greene,--	11.91	8.31	-----
4284	*Unbolted Kiln Dried Corn Meal, -----	Smethport, F. A. Greene,	12.68	8.03	-----
	HERZOG MILLING CO., SMETHPORT, PA. *Bolted Kiln Dried Corn Meal, -----	Smethport, Herzog Milling Co.	11.24	9.72	-----
4283	*Unbolted Kiln Dried Corn Meal, -----	Smethport, Herzog Milling	11.28	9.53	-----
4367	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's Yellow Corn Meal, -----	St. Marys, Hall, Kaul & Hyde Co.	12.45	9.38	-----
4281	URNSTON GRAIN CO., BUFFALO, N. Y. *Whole Corn Kiln Dried, -----	Smethport, Herzog Milling Co.	12.11	9.34	-----
	OAT CHOPS.	Average, -----	12.39	9.00	-----
4235	GLOBE ELEVATOR CO., BUFFALO, N. Y. *Ground White Oats, -----	Canton, Canton Mercantile Co.	9.44	13.38	-----
	CORN AND OAT CHOPS.				
4624	BRJAR CREEK MILLS, BRIAR CREEK, PA. *Corn and Oats Chop, -----	Briar Creek, Briar Creek Mills.	11.53	12.25	-----
4229	GLOBE ELEVATOR CO., BUFFALO, N. Y. *Crushed Corn and Oats Half and Half.	Canton, Canton Mercantile Co.	9.15	11.50	8-10
4230	*Fine Ground Corn and Oats Half and Half.	Canton, Canton Mercantile Co.	11.36	10.94	-----
4163	THE LAKE ERIE MILLING CO., TOLEDO, OHIO. Mollett's Pure Corn and Oats Chop, Coarse.	Wellboro, Farmers' Feed Store.	10.50	10.31	10.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber. Guaranteed. Found.	Fiber. Guaranteed. Found.	Price per ton or cwt.	Certified Composition.	Identified by Micro- scopical Examination.	Chemist's number.
Per ct. Per ct. Per ct. Per ct. \$						
3.43 4.00 9.12 9.00			2.90	White or yellow corn, oats, corn meal mill by-products (fine meal and siftings), oat meal by-products (oat middlings, oat groats, oat hulls), wheat middlings and $\frac{1}{2}$ of 1% fine salt.	As certified, -----	4691
3.75 ----- 9.16 -----			3.17			
4.48 3.50 4.90 10.00			3.75	Rye, ear corn, corn feed meal, barley, oats and sweepings.	As certified, -----	4285
3.15 ----- 1.66 -----			3.70		Corn chop, mouldy,-----	3733
2.19 ----- 0.77 -----			4.00	Kiln dried bolted corn meal.	Corn meal. Damaged condition.	4285
2.46 ----- 0.81 -----			3.40	Unbolted kiln dried corn meal.	Corn meal. Somewhat mouldy and damaged.	4284
4.48 ----- 1.14 -----				Made from kiln dried whole corn bolted.	Corn meal. Damaged condition.	4282
3.57 ----- 1.55 -----			4.20	Unbolted corn meal, made from kiln dried corn.	Corn meal. Somewhat mouldy and damaged.	4283
3.05 ----- 1.95 -----			4.75	Pure and unadulterated,	As certified, -----	4367
3.94 ----- 1.40 -----			3.40	Whole corn, -----	Whole corn. Somewhat mouldy and damaged.	4231
3.26 ----- 1.32 -----			3.91			
5.73 ----- 7.07 -----			3.10		Oat chop, -----	4235
4.00 ----- 2.80 -----			3.50	Whole corn and oats,--	As certified, -----	4624
5.08 4.5 6.00 4.6			3.35	Corn and oats, -----	As certified, -----	4229
4.04 ----- 6.16 -----			3.35		Corn and oats, -----	4220
3.46 4.00 5.06 9.90			3.55	Corn and oats, -----	As certified, -----	4163

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4377	THE SPRUCE CREEK MILLING CO., SPRUCE CREEK, PA. Corn and Oats Chop, -----	Spruce Creek, The Spruce Creek Milling Co.	Per ct. 12.20	Per ct. 10.31	Per ct. 9-11
3882	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. *Camp's Corn and Oats, -----	Philipsburg, Centre Milling Co.	8.95	10.94	10.00
4462	WEST SIDE FEED CO., ERIE, PA. *Corn and Oats Chop, -----	Erie, West Side Feed Co., Average, -----	10.38 10.58	11.06 11.04	-----
3968	CORN, OATS AND BARLEY CHOPS. DICKS & MILES CO., DU BOIS, PA. *Corn, Oats and Barley Chop, -----	Reynoldsville, Fales Grocery Co.	12.65	13.13	-----
4089	CORN, OATS AND RYE CHOPS. FLORY MILLING CO., BANGOR, PA. Globe Roller Mills Extra Corn, Oats and Rye Feed.	Bangor, Flory Miffling Co.,	10.92	13.19	10.12
3876	CHOP FEEDS. CITY FLOURING MILLS, INC., MUNCY, PA. *Mixed Chop, -----	Philipsburg, J. O. Reed, --	12.80	11.94	7.19
4469	G. M. GAMBLE, BELLEVILLE, PA. Mixed Chop—Fresh Ground, -----	Bellefonte, G. M. Gamble,	11.72	12.88	11-14
4200	KNOXVILLE ROLLER MILLS, KNOXVILLE, PA. *Chop Feed, -----	Knoxville, Knoxville Roller Mills.	10.78	12.50	-----
4296	M. M. LAUDENSLAGER, MACUNGIE, PA. Mixed Chop, -----	Allentown, A. T. Stover Estate.	10.56	12.81	7-12
4130	F. V. PERRY, SCOTTDALE, PA. Mixed Chop, -----	Scottdale, F. V. Perry,--	10.12	10.94	8.00
4371	MISCELLANEOUS FEEDS. J. J. BRADENOCHE CO., CHICAGO, ILL. *Corn Meal, -----				
3860	DAHNKE-WALKER MILLING CO., UNION CITY, TENN. Danco Feed, -----	St. Marys, Hall, Kaul & Hyde Co.	13.52	7.75	-----
3937	W. H. D. GODSHALL, COLMAR, PA. *Cob Chop, -----	West Bridgewater, W. W. McCullough.	10.54	9.88	10.00
3938	*Corn Chop, -----	Colmar, W. H. D. Godshall. Colmar, W. H. D. Godshall.	19.74 19.26	6.97 6.82	-----

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopic Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$ 3.50	Shelled corn and oats,	As certified, -----	4377
3.95	3-4	3.51	7-9				
5.88	4.00	6.18	8.00	3.75	Corn and oats, -----	As certified, -----	3882
5.19	-----	5.47	-----	58.00	Corn and oats, -----	As certified, -----	4462
4.51	-----	5.02	-----	68.29			
4.72	-----	5.07	-----	3.50	Corn, oats and barley,	Corn, oats and barley, mouldy and damaged.	3968
4.18	5-7	2.50	2-5	3.20	Corn, oats and rye, ---	As certified, -----	4089
2.56	3.25	8.63	12.00	3.20	Corn chop, ground screenings, barley midds, barley hulls and and B. W. feed.	Corn chop, ground screenings, barley mid- dlings, barley hulls, buckwheat middlings and hulls. Damaged and mouldy.	3876
3.73	3-5	5.20	4.00	62.00	Corn, oats, bran, shorts and screenings.	As certified, -----	4469
7.23	-----	6.22	-----	3.25	Corn, oats, rye mid- dlings and corn bran.	As certified, -----	4200
4.97	2-6	5.22	2-10	3.25	Corn, ear corn, rye middlings, hominy feed and oats.	As certified, -----	4296
5.13	4.00	5.62	9.00	3.25	Corn, oats, wheat, rye rye screenings and corn bran.	As certified, -----	4130
0.88	-----	0.90	-----	4.75		Corn meal, -----	4371
6.51	7.00	5.41	6.00	3.50	Offal from white corn,	Offal from corn flour, corn bran and meal.	3860
2.24	-----	6.02	-----	2.75		Ear corn chop. Mouldy and damaged.	3937
1.56	-----	1.28	-----	3.60	Siftings from cracked corn.	Corn siftings. Mouldy and damaged.	3938

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4167	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. *Badger Pearl Hominy, made from White Corn.	Wellsboro, Equity Co-Operative Exchange.	Per et. 12.68	Per et. 11.75	Per et. -----
4168	*Badger Pearl Grits, made from White Corn.	Wellsboro, Equity Co-Operative Exchange.	11.86	10.31	-----
	PROPRIETARY POULTRY FOODS. SCRATCH FEEDS.				
4027	THE AKRON FEED & MILLING CO., AKRON, OHIO. *Portage Chick Feed, -----	Townville, C. F. Hopkins,	10.14	12.06	10.00
4638	AMERICAN HOMINY CO., DECATUR, ILL. Hexite Scratch Feed, -----	York, Strayer Brothers Co.	11.15	13.19	10.00
4170	AMERICAN MILLING CO., PEORIA, ILL. Cluck Cluck Scratch Feed, -----	Wellsboro, Equity Co-Operative Exchange.	11.81	12.38	10.00
3638	Cluck Cluck Scratch Feed, -----	Huntingdon, L. S. Goodman & Sons.	11.38	11.88	10.00
4177	Sucrene Chick Feed, -----	Average, -----	11.59	12.13	-----
		Wellsboro, Equity Co-Operative Exchange.	12.13	11.88	10.00
4133	Sucrene Chick Feed, -----	Scottdale, F. V. Perry, --	12.04	10.81	10.00
		Average, -----	12.08	11.35	-----
4390	Sucrene Scratch Feed, -----	Coatesville, Handwork Brothers.	12.87	10.75	10.00
3655	Suerene Scratch Feed, -----	Uniontown, King Brothers,	11.19	12.44	10.00
		Average, -----	12.03	11.60	-----
4632	ANDERSON BROTHERS CO., YORK, PA. *A. B. C. Scratch Feed, -----	York, F. Loueks & Son, --	11.50	13.44	10.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Fer ct.	Per ct.	Per ct.	\$			
0.33	-----	0.32	-----	7 00		Pearl hominy, -----	4167
0.41	-----	0.50	-----	7 00		Pearl grits, -----	4168
4.11	2.50	2.20	5.00	5 00	Cracked Indian corn, whole wheat, whole barley, whole Kaffir and milo, whole buckwheat, whole oats, $\frac{1}{2}$ of 1% sun flower seed and marble grit.	Cracked Indian corn, whole wheat, whole barley, whole Kaffir corn, milo maize, whole buckwheat, whole oats, millet seed, sunflower seed marble grit and large amount whole weed seeds.	4027
3.53	2.50	3.12	7.00	4 00	Feed wheat, corn, Kaffir, oats, speltz, homocoline (corn gerin meal) and sunflower seed.	As certified, -----	4638
3.68	2.50	2.60	5.00	4 00	Corn, wheat, barley, Kaffir, oats, buckwheat and sunflower seed.	Corn, wheat, barley, Kaffir corn, oats, buckwheat, sunflower seed, rye, flaxseed and large amount whole weed seeds.	4179
4.26	2.50	2.89	5.00	4 75	Corn, wheat, barley, Kaffir, oats, buckwheat and sunflower seed.	As certified, -----	3638
3.97	-----	2.74	-----	4 38			
3.08	2.50	1.65	5.00	4 50	Corn, wheat, Kaffir and millet. No grit.	Corn, wheat, Kaffir corn, millet seed and small amount whole weed seeds.	4177
3.54	2.50	1.49	5.00	4 75	Corn, wheat, Kaffir and millet. No grit.	Corn, wheat, Kaffir corn, millet seed, flaxseed and large amount whole weed seeds.	4133
3.31	-----	1.57	-----	4 63			
3.28	2.50	2.62	5.00	4 10	Corn, wheat, Kaffir, barley, buckwheat, oats and sunflower seed. No grit.	Corn, wheat, Kaffir corn, barley, buckwheat, oats, sunflower seed and small amount small whole weed seeds.	4390
3.60	2.50	3.79	5.00	4 25	Corn, wheat, Kaffir barley, buckwheat, oats and sunflower seed. No grit.	As certified, -----	3685
3.49	-----	3.20	-----	4 18			
3.38	3.00	2.90	4.00	4 00	Cracked corn, recleaned grain screenings from wheat, wheat, barley, Kaffir corn, buckwheat, oats and sunflower seed. No grit or shell.	Cracked corn, recleaned grain screenings from wheat, wheat, barley, Kaffir corn, buckwheat and oats.	4632

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4289	H. O. AYER, ULSTER, PA. Scratch Grains, -----	Ulster, H. O. Ayer, -----	Per et. 11.86	Per et. 11.75	Per et. -----
4434	BLAMBERG BROTHERS, INC., BALTIMORE, MD. Cornell Brand Pigeon Feed No. 3,--	New Oxford, J. H. Duttera.	11.77	17.13	15.00
3646	BLANK & GOTTSALL, SUNBURY, PA. B. & G. Blended Hen Food, -----	Sunbury, Blank & Gottshall.	13.42	10.50	10.00
3648	B. & G. Chick Food Invigorator, ---	Sunbury, Blank & Gottshall.	11.08	11.75	10.50
3649	B. & G. Developing Food, -----	Sunbury, Blank & Gottshall.	11.36	10.50	10.00
3650	B. & G. Hen-O-La Scratch Food, --	Sunbury, Blank & Gottshall.	8.75	9.88	9-10
4623	BRIAR CREEK MILLS, BRIAR CREEK, PA. *Scratching Grain, -----	Briar Creek, Briar Creek Mills.	12.70	12.50	-----
4487	BROWN & FASSETT, TUNKHAN- HOCK, PA. Scratch Feed, -----	Tunkhannock, Brown & Fassett.	12.09	10.88	8-10
4258	DAYTON MILLING CO., TOWANDA, PA. Dayton's Ideal Scratch Grains, -----	Towanda, Dayton Milling Co.	11.17	12.13	8-12
4259	Dayton's Prize Baby Chick Food, ---	Towanda, Dayton Milling Co.	11.92	11.75	9-13
3845	THE ALBERT DICKINSON CO., CHICAGO, ILL. Globe Scratch Feed-No GRIT, -----	Kittanning, J. A. Gault Co.	12.12	10.69	10.00
4521	Globe Seratch Feed-No Grit, -----	Montrose, Harrington & Wilson.	12.28	12.38	10.00
		Average, -----	12.20	11.54	-----

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber. Guaranteed. Found.		Price per ton or cwt. Guaranteed.	Certified Composition.	Identified by Micro- scopical Examination.	Chemist's number.	
Per cent. 3.05	Per cent. 1.95	Per cent. -----	\$ 3.90	Wheat, barley, Kaffir or milo maize, buck- wheat and oats.	As certified, -----	4289	
3.63	2.50	4.06	4.00	6.00	Kaffir corn, buckwheat, hemp seed, millet seed, vetch, Canada peas, rolled oats and rice properly balanced.	Kaffir corn, buckwheat, hemp seed, millet seed, vetch, Canada peas and rolled oats.	4434
3.16	2.25	3.83	3.50	3.90	Cracked corn, wheat; Kaffir corn, buckwheat, barley, sunflower seed, oats and charcoal.	Damaged corn, wheat, Kaffir corn, buck- wheat, barley, sun- flower seed, oats, charcoal and Hen-E- Ta bone grit.	3646
3.72	2.25	2.53	3.50	4.25	Cracked corn, cracked wheat, millet, Hen-e-ta grit, cracked peas, Kaffir corn, milo maize and red top cane.	Cracked corn, cracked wheat, millet seed, Hen-e-ta, grit, crack- ed peas, Kaffir corn and milo maize.	3648
2.81	2.50	2.02	2.50	4.25	Wheat, cracked corn, Kaffir corn, millet and hulled oats.	Wheat, cracked corn, Kaffir corn, millet seed, hulled oats and small amount whole weed seeds.	3649
3.26	2-3	2.61	3-4	3.80	Cracked corn, whole wheat, oats, Kaffir corn, buckwheat, sun- flower seed and Hen- e-ta bone.	As certified, -----	3650
2.45	-----	3.32	-----	4.00	Cracked corn, barley, Kaffir corn, wheat screenings, buckwheat screenings and sun- flower seed.	Cracked corn, barley, Kaffir corn, wheat screenings, buckwheat screenings and small amount small whole weed seeds.	4623
3.29	3-5	1.85	4-6	3.75	Cracked corn, wheat, buckwheat, barley and oats.	Cracked corn, wheat, buckwheat, barley oats and rye.	4487
4.55	3-6	2.37	3-6	4.25	-----	Cracked corn, wheat, oats, barley, Kaffir corn and sunflower seed.	4258
3.05	4-6	1.13	-----	4.50	-----	Cracked corn, wheat, Kaffir corn and mil- let seed.	4259
3.67	2.50	3.00	5.00	4.20	Corn, wheat, buck- wheat, sunflower, bar- ley, oats, Kaffir corn and oil cake.	Corn, wheat, buck- wheat, sunflower, barley, oats, Kaffir corn, linseed oil cake and small amount whole weed seeds.	3845
3.18	2.50	2.87	5.00	3.10	Wheat, buckwheat, corn, sunflower, barley, oats, Kaffir corn and oil cake.	As certified, -----	4521
3.43	-----	2.93	-----	3.65	-----	-----	-----

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3849	Pine Tree Scratch Feed-No Grit, ----	Beaver Falls, Dodds & Garrett.	Per ct. 11.45	Per ct. 11.00	Per ct. 10.00
3775	Rival Scratch Feed-No Grit, -----	Irwin, H. Altman & Son,	10.64	10.19	8.50
4109	Rival Seratch Feed-No Grit, -----	Stroudsburg, Frank LeBar,	8.50	10.75	9.50
		Average, -----	9.57	10.47	-----
3806	Rival Seratch Feed-With Grit, -----	Harrisburg, Paxton Flour & Feed Co.	10.14	10.25	9.50
4526	White Cross Scratch Feed-No Grit,--	Montrose, Andre & Sweet,	11.86	11.88	10.00
4129	White Cross Scratch Feed-No Grit, --	Mt. Pleasant, F. E. Painter.	10.53	10.56	10.00
		Average, -----	11.19	11.22	-----
3805	White Cross Scratch Feed-With Grit,	Harrisburg, Paxton Flour & Feed Co.	10.49	10.06	10.00
3865	DIXIE MILLS CO., EAST ST. LOUIS, ILL. Dixie Hen Feed, -----	West Bridgewater, W. W. McCullough.	12.72	10.19	10.00
3734	THE EASTON FLOUR & FEED CO., EASTON, PA. Easton's Best Mixed Grain, -----	Easton, The Easton Flour & Feed Co.	15.19	9.19	10.00
4370	EMPORIUM MILLING CO., EM- PORIUM, PA. Scratch Feed, -----	St. Marys, Hall, Kaul & Hyde Co.	13.23	11.00	-----
4154	JOHN W. ESHELMAN, LANCAS- TER, PA. Scratch Feed-No Grit, -----	Altoona, H. H. Langdon,	10.47	10.81	10.00
4092	FLORY MILLING CO., BANGOR, PA. Liberty Standard Chick Feed, -----	Bangor, Flory Milling Co.,	10.76	12.38	7.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Guaranteed.	Found.	Guaranteed.	Found.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
3.40	2.50	3.60	5.00	4 25	Corn, wheat, buckwheat, sunflower, barley, oats and Kaffir corn.	Corn, wheat, buckwheat, sunflower seed, barley, oats, Kaffir corn and rye.	3849
3.30	2.50	3.45	5.00	4 40	Corn, wheat, Kaffir corn, barley and oats.	As certified, -----	3775
4.18	2.50	3.38	5.00	4 30	Corn, wheat, Kaffir corn, barley and oats.	Corn, wheat, Kaffir corn, barley, oats and small amount whole weed seeds.	4109
3.74	-----	3.41	-----	4 35			
3.46	2.50	3.96	5.00	3 95	Corn, wheat, Kaffir corn, barley, oats, wild buckwheat and grit.	Corn, wheat, Kaffir corn, barley, oats, wild buckwheat, rye, grit and large amount whole weed seeds.	3806
3.20	2.50	3.42	5.00	4 00	Corn, wheat, buckwheat, sunflower, barley, oats and Kaffir corn.	As certified, -----	4526
3.49	2.50	2.59	5.00	4 75	Corn, wheat, buckwheat, sunflower, barley, oats and Kaffir corn.	As certified, -----	4129
3.35	-----	3.00	-----	4 38			
2.82	2.50	3.14	5.00	4 50	Corn, wheat, buckwheat, sunflower, barley, oats, Kaffir corn and grit.	Corn, wheat, buckwheat, sunflower flower seed, barley, oats, Kaffir corn, rye and grit.	3805
2.84	3.00	1.96	5.00	4 25	Wheat, corn, Kaffir, milo, barley, emmer, oats and sunflower seed.	Wheat, corn, Kaffir corn, milo maize, barley, emmer, oats, rye and small amount whole weed seeds.	3865
3.03	3.10	2.02	3.50	4 00	Cracked corn, wheat, oats, buckwheat and sunflower seed.	Mouldy corn, wheat, oats, buckwheat and sunflower seed.	3734
3.13	-----	3.02	-----	4.75			
3.32	3.00	2.26	3.00	4 75	Cracked corn, recleaned grain screenings from wheat, sunflower seed, wheat, barley, Kaffir corn, milo maize, buckwheat, rye and oats.	As certified, -----	4154
3.85	4.00	1.43	4.00	4 60	Cracked corn, cracked wheat, Kaffir corn and millet seed.	Cracked corn, cracked wheat, Kaffir corn, millet seed and small amount whole weed seeds.	4092

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at .	Protein.		
			Moisture.	Found.	Guaranteed.
4113	Liberty Standard Mixed Grains, ____	Stroudsburg, Frank LeBar,	Per cent. 8.00	Per cent. 12.13	Per cent. 7.00
3878	GLOBE ELEVATOR CO., BUFFALO, N. Y. Anehor Brand Serateh Feed, _____	Philipsburg, J. O. Reed, __	11.87	10.94	11-13
4234	Blue Ribbon Developing Feed, _____	Canton, Canton Mercantile Co.	10.76	11.88	11-12
3750	Blue Ribbon Scratch Feed, _____	Doylestown, The Doylestown Poultry and Supply Co.	12.27	11.44	12-14
4570	Blue Ribbon Scratch Feed, _____	Wilkes-Barre, Robbins Milling Co.	12.31	11.81	11-12
4051	Star Scratching Grains, -----	Average, ----- Lock Haven, M. L. Claster.	12.29	11.63	-----
3969	Star Scratching Grains, -----	Reynoldsville, Fales Grocery Co.	12.23	11.88	11.00
4574	Star Scratching Grains, -----	Wilkes-Barre, Robbins Milling Co.	11.84	11.44	10-11
3923	A. C. GODSHALL & CO., INC., LANSDALE, PA. Chick Feed, -----	Average, ----- Lansdale, A. C. Godshall & Co., Inc.	10.67	11.96	-----
3924	Scratch Feed, -----	Lansdale, A. C. Godshall & Co., Inc.	9.99	12.06	7.00
4120	GRAIN BELT MILLS CO., ST. JOSEPH, MO. Gee-Bee Chick Feed, -----	South Brownsville, C. D. Chamberlain.	12.29	12.31	8.00
4542	HALES & EDWARDS CO., CHICAGO, ILL. Red Comb Poultry Feed with Grit and Shell.	Jeannette, Keystone Supply Co.	10.83	10.50	10.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per cent.	Per cent.	Per cent.	Per cent.	\$ 4.30	Cracked corn, wheat, barley, oats, Kaffir corn and buckwheat.	Cracked corn, wheat, barley, oats, Kaffir corn, buckwheat and small amount small whole weed seeds.	4113
4.30	5.00	4.09	4.00				
3.00	3-5	3.72	4-6	\$ 4.50	Cracked corn, Kaffir, wheat, barley, oats, buckwheat and peas.	Cracked corn, Kaffir corn, wheat, barley, oats, buckwheat, peas and small amount whole weed seeds.	3878
3.51	2-3	2.41	3-4	\$ 4.20	Cracked corn, Kaffir, wheat, buckwheat, peas and millet.	As certified, -----	4234
3.06	4-5	3.74	3-4	\$ 4.40	Cracked corn, wheat, barley, Kaffir corn, oats, buckwheat, sunflower seed and green split peas.	As certified, -----	3750
3.48	3-4	2.80	3-4	\$ 4.10	Cracked corn, wheat, barley, Kaffir, peas, oats, buckwheat and sunflower seed.	As certified, -----	4570
3.27	-----	3.27	-----	\$ 4.25			
3.33	2-3	2.56	4-6	\$ 4.75	Cracked corn, Kaffir, wheat, barley, oats and buckwheat.	Mouldy corn, Kaffir corn, wheat, barley, oats, buckwheat and small amount small whole weed seeds.	4051
3.08	3.00	3.54	6.00	\$ 4.50	Cracked corn, Kaffir, wheat, barley, oats and buckwheat.	Cracked corn, Kaffir corn, wheat, barley, oats, rye, buckwheat and large amount whole weed seeds.	3969
3.55	2-3	3.12	4-6	\$ 3.90	Cracked corn, Kaffir barley, oats, wheat screenings, buckwheat and wheat.	As certified, -----	4574
3.32	-----	3.07	-----	\$ 4.38			
4.18	2.00	2.35	5.00	\$ 4.35	Cracked corn, cracked wheat screenings, millet, charcoal, oyster shells and grit.	Cracked corn, cracked wheat screenings, rye, flaxseed, millet seeds, charcoal, oyster shells, grit and large amount whole weed seeds.	3923
2.69	2.00	3.14	4.00	\$ 4.35	Wheat, cracked corn, Kaffir corn, barley and buckwheat.	Wheat, cracked corn, Kaffir corn, barley, buckwheat and small amount small whole weed seeds.	3924
3.08	3.00	2.45	5.00	\$ 4.50	Wheat, corn, Kaffir, milo and millet seed.	As certified, -----	4120
2.57	2.00	2.80	7.00	\$ 0.00	Wheat, cracked corn, Kaffir corn, barley, oats, sunflower seed, buckwheat and not over 3% grit, 3% shell.	As certified, -----	4542

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4408	THE H-O COMPANY, BUFFALO, N. Y. Algrane Scratching Feed, -----	Oil City, Clyde D. Dufley,	Per ct.	Per ct.	Per et.
			11.01	11.50	11.00
4461	Algrane Scratching Feed, -----	Erie, West Side Feed Co.,--	10.29	12.38	11.00
4476	Liberty Standard Mixed Grains, ---	Average, ----- Bellefonte, N. J. Hockman.	10.65 11.05	11.94 11.44	----- 10.00
3816	HOFFER & GARMAN, HARRISBURG, PA. Hen Feed, -----	Harrisburg, Hoffer & Garman.	12.79	9.56	9.00
4293	KASCO MILLS, WAVERLY, N. Y. Kaseo Scratch Grain, -----	Ulster, O. F. Potter, -----	12.73	11.63	10.00
3721	KEYSTONE COMMERCIAL CO., McKEEPORT, PA. John-Hen Poultry Feed, -----	McKeesport, Keystone Commercial Co.	8.26	8.63	9.00
3916	H. B. KRATZ, SCHWENKSVILLE, PA. Ideal Hen Feed, -----	Quakertown, S. S. Detweiler.	7.57	9.63	10.11
4037	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Blue Top Scratch Feed-No Grit, ---	Lock Haven, E. E. Wentz,	11.42	11.88	10.00
4075	Conservation Scratch Feed-No Grit,--	Sharon, Sharon Flour & Feed Milling Co.	12.64	11.25	9.00
4225	Krause Scratch Feed-No Grit, -----	Canton, Canton Mercantile Co.	11.15	11.63	10.90

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.	Fiber.					Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.		Price per ton or ewt.			
Per ct.	Per ct.	Per ct.	Per ct.	4 <sup>98</sup>				
3.65	3.50	2.32	9.00	4.35		Wheat, oats, Kaffir corn, buckwheat, wheat screenings, cracked corn, milo maize, sunflower seed, hulled oats, cracked peas and barley.	Wheat, oats, Kaffir corn, buckwheat, wheat screenings, cracked corn, milo maize, sunflower seed, hulled oats, cracked peas, barley and small amount whole weed seeds.	4408
4.53	3.50	3.10	9.00	4.10		Wheat, oats, Kaffir corn, buckwheat, wheat screenings, cracked corn, milo maize, sunflower seed, hulled oats, cracked peas and barley.	Corn (damaged), wheat, oats, Kaffir corn, buckwheat, wheat screenings, milo maize, sunflower seed, hulled oats, cracked peas and barley.	4461
4.09		2.71		4.23				
3.34	3.00	2.85	4.00	4.50		Hulled oats, wheat, wheat screenings, cracked corn, buckwheat and oats.	Hulled oats, wheat, wheat screenings, cracked corn, buckwheat, oats and small amount whole weed seeds.	4470
3.21	3.00	2.26	2.75	4.15		Cracked corn, whole wheat, buckwheat, oats, Kaffir corn, sunflower and wheat screenings.	Cracked corn, whole wheat, buckwheat, oats, rye, wheat screenings and small amount whole weed seeds.	3816
3.31	3.00	1.77	5.00	4.00		Barley, buckwheat, cracked corn, Kaffir corn or milo maize, heavy white oats, sunflower and wheat.	Barley, buckwheat, cracked corn, Kaffir corn, wheat, white oats, sunflower seed, and small amount whole weed seeds, Somewhat musty.	4293
1.62	2.00	3.12	3.00	4.35		Wheat, cracked corn, buckwheat, barley, Kaffir corn, oats, sunflower seed, charcoal and grit.	Wheat, cracked corn, buckwheat, barley, Kaffir corn, oats, sunflower seed and grit.	3721
3.39	3-4	3.03	2-3	4.30		Cracked corn, wheat, barley, buckwheat, milo maize and sunflower seed.	Cracked corn, wheat, barley, buckwheat, milo maize and sunflower seed. Somewhat mouldy.	3916
4.52	2.50	3.61	5.00	4.50		Corn, wheat, buckwheat, barley, oats, Kaffir corn and sunflower.	As certified, -----	4037
3.58	2.50	2.45	5.00	4.25		Corn, Kaffir corn or milo maize, barley, oats, buckwheat and sunflower.	Corn, Kaffir corn, milo maize, barley, oats, buckwheat and sunflower seed, musty and somewhat damaged.	4075
3.82	2.50	2.66	5.00	4.20		Wheat, corn, Kaffir corn or milo maize, barley, oats, buckwheat and sunflower.	As certified, -----	4225

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4511	Krause Scratch Feed-No Grit, -----	Clarion, A. C. Snyder & Son.	Per ct.	Per ct.	Per ct.
		Average, -----	12.54	12.13	9.00
4321	THE LAKE SHORE ELEVATOR CO., CLEVELAND, OHIO. Equality Scratch Food, -----	Canonsburg, Wm. H. Dunlap, Jr.	12.21	10.88	10.50
4160	THE LARROWE MILLING CO., DETROIT, MICH. Log Cabin Poultry Scratch Feed without Grit.	Wellsboro, Farmers' Feed Store.	10.55	11.25	10.60
4649	MARTIN & CO., ALTOONA, PA. Liberty Standard Mixed Grains, -----	Altoona, Martin & Co.	11.62	12.50	9.00
4583	C. P. MATTHEWS & SONS, INC., SCRANTON, PA. Best Mixed Grain for Chickens, -----	Wilkes-Barre, C. P. Matthews & Sons, Inc.	11.95	10.31	8-9
4361	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. No. 1 Scratch Feed, -----	Allentown, The George B. Shelly Estate.	12.50	11.75	-----
4213	MYSTIC MILLING & FEED CO., ROCHESTER, N. Y. Mystic Scratching Grains, -----	Westfield, F. A. Ackley, -----	11.52	10.94	-----
4148	NATIONAL OATS CO., ST. LOUIS, MO. Nutro Hen Feed, -----	Altoona, Leibovitz Feed Mills.	8.20	12.56	10.00
4664	NOWAK MILLING CORPORATION, BUFFALO, N. Y. Fidelity Scratch Feed, -----	Elizabethtown, Muth Brothers.	11.96	12.38	10-12
3925	THE PARK & POLLARD CO., BOSTON, MASS. Baby Buster Chick Feed, -----	Lansdale, A. C. Godshall & Co., Inc.	12.35	13.00	11.00
4038	Intermediate Chick Feed, -----	Lock Haven, E. E. Wentz,	12.59	10.31	10.09

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.	Fiber.			Price per ton or ewt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.03	Per ct. 2.50	Per ct. 4.02	Per ct. 5.00	4 85	Wheat, corn, Kaffir corn or milo maize, barley, oats, buckwheat and sunflower.	Wheat, corn, Kaffir corn, barley, oats buckwheat, sunflower seed and small amount whole weed seeds.	4511
3.43	-----	3.34	-----	4 53			
6.25	3.40	2.62	2.85	4 50	Cracked corn, wheat, Kaffir corn, barley, buckwheat and sunflower seed.	Cracked corn, wheat, Kaffir corn, barley, buckwheat, rye and sunflower seed.	4821
4.65	2.50	3.14	6.00	4 00	Wheat, cracked corn, barley, Kaffir, milo, buckwheat and sunflower seed.	As certified, -----	4160
3.34	4.00	2.92	4.00	4 50	Cracked corn, barley, oats, Kaffir corn, buckwheat, oats and peas.	As certified, -----	4649
3.20	2-3	3.10	4-5	3 80	Kaffir corn, B. W. grains, wheat, cracked corn, oats, barley, sunflower seed and grit.	Kaffir corn, buckwheat grains, wheat, mustard corn, oats, barley, sunflower seed and grit	4583
5.48	-----	2.62	-----	4 50		Cracked corn, wheat, oats, barley, buckwheat, Kaffir corn, cracked peas and small amount whole weed seeds.	4801
3.40	-----	2.08	-----	4 25		Cracked corn, oats, wheat, barley, buckwheat, Kaffir corn and sunflower seed.	4213
3.54	3.00	4.33	3.50	4 50	Wheat, cracked corn, barley, oats and Kaffir corn.	As certified, -----	4148
3.43	3.00	3.17	5.00	4 00	Cracked corn, whole wheat, milo maize, barley, buckwheat and sunflower seeds.	As certified, -----	4664
3.18	2.00	1.85	5.00	4 75	Cracked corn, wheat, Kaffir corn, milo, whole millet seed, oats and shredded fish.	Cracked corn, wheat, Kaffir corn, milo seed, whole millet seed, oats, shredded fish and small amount small whole weed seeds.	3925
2.87	3.50	1.63	5.00	5 75	Cracked corn, wheat, buckwheat, oats, millet, Kaffir corn and milo.	As certified, -----	4088

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
4036	Red Ribbon Chick Feed, -----	Lock Haven, E. E. Wentz,	Per et. 11.70	Per et. 10.88	Per et. 10.00
4299	Red Ribbon Scratch Feed, -----	Allentown, The George B. Shelly Estate.	12.05	11.44	10.00
3928	Screened Scratch Feed, -----	Lansdale, A. O. Godshall & Co., Inc.	11.43	10.50	10.00
4553	Screened Scratch Feed, -----	Warren, Warren City Mills,	11.88	11.75	10.00
4406	THE PHILADELPHIA SEED CO., INC., PHILADELPHIA, PA. N. A. Competition Scratch Feed, -----	Average, -----	11.65	11.13	-----
		Philadelphia, The Philadelphia Seed Co., Inc.	11.77	12.94	7.00
4700	N. A. Competition Scratch Feed, -----	Philadelphia, The Philadelphia Seed Co., Inc.	10.99	14.06	10.00
4405	Purgrain Chick Feed, -----	Average, -----	11.38	13.50	-----
		Philadelphia, The Philadelphia Seed Co., Inc.	11.07	12.63	7.00
4703	Purgrain Scratch Poultry Feed No. 1, -----	Philadelphia, The Philadelphia Seed Co., Inc.	11.16	11.94	10.00
4058	PRAIRIE STATE MILLING CO., CHICAGO, ILL. Garland Chick Feed-No Grit, -----	Carnegie, Richey & McFarland.	8.83	11.25	10.00
		Carnegie, Richey & McFarland.	7.08	10.44	10.00
4312	Prairie State Scratch Feed-No Grit, -----	Washington, Washington Milling Co.	12.83	11.75	10.00

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
2.15	2.00	1.86	5.00	5 75	Cracked corn, wheat, oats, Kaffir corn, milo and whole millet seed.	As certified, -----	4036
3.70	1.50	1.67	5.00	4 50	Cracked corn, wheat, barley, oats, buckwheat, Kaffir corn, milo and sunflower seed.	Cracked corn, wheat, barley, oats, buckwheat, Kaffir corn, milo maize, sunflower seed and small amount whole weed seeds.	4299
3.67	1.50	3.63	5.00	4 45	Cracked corn, wheat, barley, oats, buckwheat, Kaffir corn, milo and sunflower seed.	Cracked corn, wheat, barley, oats, buckwheat, Kaffir corn and milo maize.	3928
2.93	1.50	2.80	5.00	4 00	Cracked corn, wheat, barley, oats, buckwheat, Kaffir corn, milo and sunflower seed.	As certified, -----	4556
3.30	-----	3.21	-----	4 23			
3.94	5.00	4.64	4.00	4 10	Wheat, cracked corn, heavy oats, wheat screenings, Kaffir, barley, buckwheat and coarse beef scrap.	Wheat, cracked corn, oats, wheat screenings, Kaffir corn, barley, buckwheat, beef scrap and small amount whole weed seeds.	4406
3.28	5.00	3.95	4.00	3 95	Wheat, cracked corn, heavy oats, Kaffir, barley, buckwheat and coarse beef scraps.	As certified, -----	4760
3.61	-----	4.30	-----	4 03			
4.28	4.00	3.25	4.00	4 65	Granulated corn, wheat, Kaffir, rice, peas, millet and steel cut oats.	Granulated corn, wheat, Kaffir corn, peas, millet seed, oats, rye and large amount seed screenings including seeds of alfalfa, red, white, alsike and crimson clover and a large amount small whole weed seeds.	4405
3.48	3.00	3.52	5.00	3 90	Sound cracked corn (40%), wheat, Kaffir, barley, oats, buckwheat and sunflower.	Cracked corn, wheat, Kaffir corn, barley, oats, buckwheat, sunflower seed, millet seed and small amount whole weed seeds.	4703
2.85	2.50	4.00	5.00	4 50	Cracked wheat, cracked corn, cracked Kaffir corn, millet, steel cut oats and not over 1% charcoal.	Cracked wheat, cracked corn, cracked Kaffir corn, millet seed and oats.	4058
4.91	2.50	3.47	5.00	4 50	Wheat, corn, Kaffir corn, barley, sunflower seed and buckwheat.	Wheat, mouldy corn, Kaffir corn, barley, sunflower seed, buckwheat and small amount whole weed seeds. Somewhat damaged.	4057
3.15	2.50	3.67	5.00	4 10	Wheat, corn, oats, Kaffir corn, barley, sunflower seed and buckwheat.	Wheat, corn, oats, Kaffir corn, barley, sunflower seed, buckwheat and rye.	4312

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4382	Red Crown Scratch Feed-No Grit, --	Tyrone, Miller Brothers,	Per ct. 12.41	Per ct. 10.75	Per ct. 10.00
4311	Red Crown Scratch Feed-No Grit, --	Washington, Washington Milling Co.	12.57	11.56	10.00
	PRESTON BROTHERS, CANTON, PA.	Average, -----	12.49	11.16	-----
4221	*Preston's Scratch Grains, -----	Canton, Preston Brothers,	12.49	10.81	-----
	THE QUAKER OATS CO., CHI- CAGO, ILL.				
4063	*Pansy Little Chick Feed-No Grit, with not to exceed 1% charcoal.	Farrell, J. B. Roux, -----	11.70	11.25	10.00
4205	Pansy Scratch Grains, -----	Westfield, H. Z. Pride & Son.	12.10	11.38	10.00
4928	*Full-O-Pep Scratch Grains, -----	Allentown, The George B. Shelly Estate	12.83	11.13	10.00
4135	*Schumacher Little Chick Feed-No Grit.	Bangor, S. E. Merkel & Co.	10.65	12.06	10.00
4085	*Schumacher Little Chick Feed-No Grit.	Greenville, J. W. Nelson,--	7.05	12.75	10.00
4074	*Schumacher Little Chick Feed-No Grit.	Sharon, Sharon Flour & Feed Milling Co.	10.00	11.69	10.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$ 4 50	Wheat, corn, oats, Kaffir corn, barley, sunflower seed and buckwheat.	As certified, -----	4382
3.45	2.50	3.82	5.00		Wheat, corn, oats, Kaffir corn, barley, sunflower seed and buckwheat.	Wheat, corn, oats, Kaffir corn, barley, sunflower seed, huck-wheat and small amount whole weed seeds.	4311
3.25	2.50	3.10	5.00	3 75			
3.50	-----	3.21	-----	4 13			
3.84	-----	2.50	-----	3 95	Cracked corn, buck-wheat, oats and sun-flower seed.	As certified, -----	4221
2.92	2.50	2.20	5.00	3 70	Cracked wheat, cracked Kaffir and milo, cracked Indian corn, whole millet seed, oat meal, wild buckwheat (with not exceeding $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains) and charcoal.	Cracked wheat, cracked Kaffir corn, milo maize cracked Indian corn, whole millet seed, oat meal, charcoal and small amount whole weed seeds. Somewhat mouldy and damaged.	4036
3.09	2.50	1.70	5.00	4 50	Whole wheat, whole Kaffir and milo, whole barley, cracked Indian corn, whole buck-wheat, whole oats and $\frac{1}{2}$ of 1% sunflower seeds.	As certified, -----	4205
2.20	2.50	2.36	5.00	4 50	Whole wheat, whole barley, whole Kaffir or milo, cracked Indian corn, whole buck-wheat and $\frac{1}{2}$ of 1% sunflower seeds.	Whole wheat, whole barley, whole Kaffir corn, milo maize; cracked Indian corn, whole buckwheat, sunflower seed and small amount whole weed seeds.	4298
4.04	2.50	2.38	5.00	5 00	Cracked wheat, cracked Kaffir and milo, cracked Indian corn, whole millet seed, oat meal, wild buckwheat (with not exceeding $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains) and charcoal.	Cracked wheat, cracked Kaffir corn, milo maize, cracked Indian corn, whole millet seed, oat meal, charcoal, flaxseed and large amount whole weed seeds.	4135
4.90	2.50	2.45	5.00	4 50	Cracked wheat, cracked Kaffir and milo, cracked Indian corn, whole millet seed, oat meal, wild buckwheat (with not exceeding $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains) and charcoal.	Cracked wheat, cracked Kaffir corn, milo maize, cracked Indian corn, whole millet seed, oat meal, charcoal, flaxseed and large amount whole weed seeds.	4085
3.77	2.50	2.71	5.00	5 00	Cracked wheat, cracked Kaffir and milo, cracked Indian corn, whole millet seed, oat meal, wild buckwheat	Cracked wheat, cracked Kaffir corn, milo maize, cracked Indian corn, whole millet seed, oat meal, charcoal, flaxseed and large amount whole weed seeds.	4074

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4248	*Schumacher Little Chick Feed-No Grit.	Chambersburg, J. H. Smith & Sons.	Per cent. 10.38	Per cent. 12.75	Per cent. 10.00
4134	Schumacher Scratch Grains, -----	Average, ----- Bangor, S. E. Merkel & Co.	9.52 9.29	12.31 11.44	----- 10.00
4087	Schumacher Scratch Grains, -----	Greenville, J. W. Nelson,	11.37	11.44	10.00
4441	RALSTON PURINA CO., INC., ST. LOUIS, MO. Purina Chick Feed, -----	Average, ----- Reading, The Obold Hardware Co.	10.33 11.54	11.44 11.19	----- 10.00
3901	Purina Chick Feed, -----	Carlisle, W. S. Stuart, -----	12.60	10.69	10.09
3629	Purina Scratch Feed, -----	Average, ----- Huntingdon, Huntingdon Milling Co.	12.07 11.75	10.94 11.38	----- 10.00
4429	Purina Seratch Feed, -----	Reading, The Obold Hardware Co.	11.50	10.94	10.00
4351	Purina Seratch Feed, -----	Concordville, Richards & Schrader.	13.40	10.88	10.00
4636	Purina Scratch Feed, -----	York, H. H. Smyser, -----	11.68	12.50	10.00
4069	SAGINAW MILLING CO., SAGINAW, MICH. Wolverine Scratch Feed, -----	Average, ----- Farrell, J. B. Roux, -----	12.08 10.62	11.43 12.00	----- 9.40
3956	ESTATE OF GEORGE S. SNYDER, HATFIELD, PA. Snyder's Chick Feed, -----	Hatfield, Estate of George S. Snyder	11.58	10.06	-----
3981	Snyder's Scratch Feed, -----	Hatfield, Estate of George S. Snyder	10.57	10.56	-----

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.	
Guaranteed.	Found.	Guaranteed.					
Per et. 3.98	Per ct. 2.50	Per et. 2.38	Per et. 5.00	\$ 4.20	Cracked wheat, cracked Kaffir and milo, cracked Indian corn, whole millet seed, oat meal, wild buckwheat (with not exceeding $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains), and charcoal.	Cracked wheat, cracked Kaffir corn, milo maize, cracked Indian corn, whole millet seed, oat meal, charcoal, flaxseed and large amount whole weed seeds.	4248
4.17	-----	2.48	-----	4.68	Whole wheat, whole Kaffir and milo, whole barley, cracked Indian corn, whole buckwheat, $\frac{1}{2}$ of 1% sunflower seeds.	Whole wheat, whole Kaffir corn, milo maize, whole barley, cracked Indian corn, whole buckwheat, sunflower seeds and small amount whole weed seeds.	4134
3.52	2.50	2.64	5.00	4.40	Whole wheat, whole Kaffir corn, milo maize, whole barley, cracked Indian corn, whole buckwheat, $\frac{1}{2}$ of 1% sunflower seeds and oil cake.	Whole wheat, whole Kaffir corn, milo maize, whole barley, cracked Indian corn, whole buckwheat, linseed oil cake and sunflower seeds. Somewhat musty and damaged.	4087
3.28	-----	2.56	-----	4.30	Wheat, corn, millet, Kaffir and milo.	As certified, -----	4441
3.52	2.50	1.90	4.00	4.90	Wheat, corn, millet, Kaffir and milo.	As certified, -----	3901
2.78	2.50	1.78	4.00	4.50	Wheat, corn, oats, barley, Kaffir, milo, sunflower and buckwheat.	As certified, -----	3629
3.15	-----	1.84	-----	4.70	Wheat, corn, oats, barley, Kaffir, milo, sunflower and buckwheat.	As certified, -----	4439
3.30	2.50	2.68	4.00	4.75	Wheat, corn, oats, barley, Kaffir, milo, sunflower and buckwheat.	As certified, -----	4351
2.28	2.50	1.95	4.00	4.50	Wheat, corn, barley, clipped oats, Kaffir or milo maize, sunflower and buckwheat.	As certified, -----	4636
3.33	2.50	2.65	4.00	4.25	Wheat, corn, oats, barley, Kaffir, milo, sunflower and buckwheat.	As certified, -----	3956
3.06	-----	2.44	-----	4.56	Wheat, corn, Kaffir corn, buckwheat, barley, wheat screenings and oats.	Wheat, mouldy corn, Kaffir corn, buckwheat, barley, wheat screenings, oats and small amount whole weeds seeds. Some what damaged.	3981
4.07	2.50	3.25	3.00	3.60	Wheat, corn, Kaffir corn, buckwheat, barley, wheat screenings and oats.	Cracked corn, buckwheat, Kaffir corn, barley, oats, millet seed, wheat screenings, sunflower seed and small amount whole weed seeds.	3981
3.73	-----	1.34	-----	5.75	Corn, Kaffir corn, millet and hulled oats.	As certified, -----	3956
4.20	-----	4.46	-----	3.90	Cracked corn, buckwheat, Kaffir corn, barley, oats, millet seed, wheat screenings, sunflower seed and small amount whole weed seeds.	Cracked corn, buckwheat, Kaffir corn, barley, oats, millet seed, wheat screenings, sunflower seed and small amount whole weed seeds.	3956

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4376	THE SPRUCE CREEK MILLING CO., SPRUCE CREEK, PA. Scratch Feed.	Spruce Creek, The Spruce Creek Milling Co.	Per ct. 13.11	Per ct. 10.56	Per ct. 10.00
4181	THE SUGARINE CO., PEORIA, ILL. Sugarine Chick Feed,	Wellsboro, George C. Brooks.	9.65	12.75	10.00
4179	Sugarine Scratch Feed,	Wellsboro, George C. Brooks.	9.41	12.56	10.00
4204	Universal Scratch Feed,	Westfield, H. Z. Pride & Son.	11.27	11.50	10.00
4126	SUTHERLAND FLOUR MILLS CO., CAIRO, ILL. Prize Poultry Feed,	New Salem, M. Duyava,--	7.48	14.25	10.00
4095	TIOGA MILL & ELEVATOR CO., WAVERLY, N. Y. Ti-O-Ga Chick Feed,	East Stroudsburg, J. M. Wyckoff.	11.01	11.44	10.00
4365	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's Red Ball Scratch Feed without Grit.	Ridgway, Smith Brothers Co.	13.23	10.00	10.00
3801	GEORGE WALTER & SONS, BUTLER, PA. Byrite Scratch Feed,	Butler, P. J. Oesterling & Son.	12.90	10.38	6-10
4350	WESTERN GRAIN PRODUCTS CO., HAMMOND, IND. Calumet Scratch Feed,	Concordville, Richards & Sehrader.	11.00	12.31	10.00
3983	Calumet Scratch Feed,	Hatfield, Estate of George S. Snyder.	10.71	12.06	10.00
3671	Calumet Scratch Feed,	Lebanon, E. Striekler's Sons.	12.30	12.44	10.00
Average, -----			11.33	12.27	-----

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per et.	Per et.	\$ 3.90	Cracked corn, buckwheat, oats and wheat screenings.	Cracked corn, buckwheat, oats, wheat screenings and large amount whole weed seeds.	4376
3.10	3.00	1.95	6.00				
3.85	2.50	3.27	5.00	4.40	Corn, wheat, Kaffir and millet.	Corn, wheat, Kaffir corn, millet seed, oats, barley, flaxseed and large amount whole weed seeds.	4181
4.41	2.50	2.85	5.00	4.20	Corn, wheat, barley, Kaffir, sunflower seed, buckwheat and oats.	As certified, -----	4179
3.23	2.50	2.18	5.00	4.50	Corn, wheat, barley, Kaffir, sunflower seed, buckwheat and oats.	Corn, wheat, barley, Kaffir corn, sunflower seed, buckwheat, oats, rye, flaxseed and large amount whole weed seeds.	4204
5.86	3.50	3.56	6.00	4.50	Wheat, corn, oats, wheat screenings and sunflower seed.	Wheat, corn, oats, wheat screenings, sunflower seed, flaxseed and large amount whole weed seeds.	4126
3.34	3.00	1.13	3.50	5.15	Cracked wheat, cracked Kaffir corn, steel cut oat meal and cracked corn.	As certified, -----	4095
2.83	2.50	2.32	5.00	5.00	Cracked corn, whole wheat, Kaffir corn, barley, oats, buckwheat and sunflower seed.	Cracked corn, whole wheat, Kaffir corn, barley, oats, buckwheat, sunflower seed and spelt.	4365
3.81	2.4	3.50	4-10	4.40	Cracked corn, wheat, oats, barley and buckwheat.	Cracked corn, wheat, oats, buckwheat and small amount whole weed seeds.	3801
3.75	2.50	3.15	5.00	4.25	Wheat, cracked corn, Kaffir corn, barley, oats, buckwheat, sunflower seed and re-cleaned wheat screenings.	Wheat, cracked corn, Kaffir corn, barley, oats, buckwheat, sunflower seed, re-cleaned wheat screenings and large amount whole weed seeds.	4350
3.68	2.50	3.97	5.00	4.00	Wheat, cracked corn, Kaffir corn, barley, oats, buckwheat, sunflower seed and re-cleaned wheat screenings.	Wheat, cracked corn, Kaffir corn, barley, oats, buckwheat, sunflower seed, re-cleaned wheat screenings and large amount whole weed seeds.	3983
3.23	2.50	3.84	5.00	4.15	Wheat, cracked corn, Kaffir corn, barley, oats, buckwheat, sunflower seed and re-cleaned wheat screenings.	Wheat, cracked corn, Kaffir corn, barley, oats, buckwheat, sunflower seed, re-cleaned wheat screenings and small amount whole weed seeds.	3672
3.55	-----	3.65	-----	4.13			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
4251	Hammond Scratch Feed-No Grit, ----	Chambersburg, Lakeview Milling Co.	Per ct. 9.97	Per ct. 13.06	Per ct. 10.00
4082	Hammond Scratch Feed-No Grit, ----	Greenville, Mathers Brothers.	10.70	13.56	10.00
3673	Hammond Scratch Feed-No Grit, ----	Lehanon, E. Strickler's Sons.	12.39	11.75	10.00
		Average, -----	11.02	12.79	-----
3738	F. C. WILLIAMS, EASTON, PA. Diamond Scratch Feed, -----	Easton, F. C. Williams, --	12.62	10.63	9.00
3739	Star Scratch Feed, -----	Easton, F. C. Williams, --	12.62	10.63	9.00
4104	J. M. WYCKOFF, EAST STROUDSBURG, PA. Scratch Grains, -----	East Stroudsburg, J. M. Wyckoff.	11.29	10.94	6-10
	MASH FEEDS.				
4195	AMERICAN MILLING CO., PEORIA, ILL. Sucrene Poultry Mash, -----	Knoxville, Deerfield Milling Co.	10.93	19.60	9.00
4006	Sucrene Poultry Mash, -----	Somerset, John G. Emert,	12.01	18.25	18.00
		Average, -----	11.47	18.93	-----
4290	H. O. AYER, ULSTER, PA. Laying Mash, -----	Ulster, H. O. Ayer, -----	9.62	21.38	-----

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat. Found.	Fiber. Guaranteed. Found.		Guaranteed.	Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Per ct. 3.35	Per ct. 2.50	Per ct. 2.65	Per et. 5.00	\$ 4 50	Wheat, cracked corn, Kaffir corn, barley, oats, oil cake, sunflower seed and buckwheat.	Wheat, cracked corn, Kaffir corn, barley, oats, linseed oil cake, sunflower seed, buckwheat and small amount small whole weed seeds.	4251
3.32	2.50	4.12	5.00	4.20	Wheat, cracked corn, Kaffir corn, barley, oats, oil cake, sunflower seed and buckwheat.	Wheat, cracked corn, barley, oats, linseed oil cake, sunflower seed, buckwheat and small amount whole weed seeds.	4082
3.17	2.50	2.85	5.00	4 25	Wheat, cracked corn, Kaffir corn, barley, oats, oil cake, sunflower seed and buckwheat.	Wheat, cracked corn, Kaffir corn, barley, oats, linseed oil cake, sunflower seed, buckwheat and rye.	3673
3.28	-----	3.20	-----	4 32			
3.90	2.00	2.85	3.40	4 35	Wheat, corn, barley, buckwheat, Kaffir corn and charcoal.	As certified, -----	3738
2.93	2.50	2.76	3.50	4 30	Wheat, corn, barley, buckwheat, Kaffir corn and charcoal.	As certified, -----	3739
2.95	2.6	3.99	5-10	4 00	Cracked corn, Kaffir corn, wheat, oats, barley, sunflower seed and buckwheat.	Cracked corn, Kaffir corn, wheat, oats, sunflower seed and buckwheat.	4104
4.58	3.50	6.71	12.00	3 50	Corn feed meal, alfalfa meal, meat scraps, corn distillers' dried grains, palm kernel meal, wheat bran, linseed meal and salt.	As certified, -----	4195
3.86	3.50	5.87	12.00	3 55	Corn feed meal, alfalfa meal, meat scraps, corn distillers' dried grains, wheat bran, linseed meal, palm kernel meal, calcium carbonate and salt.	As certified, -----	4006
4.22	-----	6.29	-----	3 53			
5.17	-----	7.35	-----	3 25	Wheat bran, wheat middlings, corn gluten feed, meat scraps and Schumacher Feed.	Wheat bran, corn gluten feed, meat scraps, ground hominy feed, ground barley, wheat flour, wheat middlings and screenings, cottonseed meal, ground puffed rice, ground puffed wheat, oat middlings, oat hulls, oat shorts and salt.	4290

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture	Protein.	
				Found.	Guaranteed.
3652	BLANK & GOTTSALL, SUNBURY, PA. B. & G. Chick mash, -----	Sunbury, Blank & Gottshall.	Per ct. 9.46	Per ct. 17.13	Per ct. 14-15
3651	*B. & G. Hen-O-La Mash Food, -----	Sunbury, Blank & Gottshall.	9.01	12.88	12-13
3647	B. & G. Mash Food, -----	Sunbury, Blank & Gottshall.	10.49	16.63	15.00
4093	BLATCHFORD CALF MEAL FACTORY, WAUKEGAN, ILL. Blatchford's Fill the Basket Egg Mash.	East Stroudsburg, J. M. Wyekoff.	8.06	21.31	19.00
3764	Blatchford's Milk Mash, -----	Greensburg, McFarland Supply Co.	10.03	19.31	20.00
4486	BROWN & FASSETT, TUNKHANNOCK, PA. Favorite Dry Mash, -----	Tunkhannock, Brown & Fassett.	10.17	23.63	18-20
4253	DAYTON MILLING CO., TOWANDA, PA. Dayton's Laying Mash, -----	Towanda, Dayton Milling Co.	11.45	20.63	12-15
3617	THE ALBERT DICKINSON CO., CHICAGO, ILL. Globe Egg Mash, -----	South Fork, J. E. Crisman.	10.11	18.56	15.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.38	Per ct. 3.5-4	Per ct. 6.11	Per ct. 4.5-5	3 20	Bran, midds, shredded wheat, corn meal, oats chop, bone meal and foenugreek.	As certified, -----	3652
2.70	2-3	4.31	3-4	3 00	Corn chop, gluten, wheat midds, wheat bran, oil meal and Hen-e-ta bone.	As certified, -----	3651
3.05	3.00	4.90	5.00	3 10	Corn meal, midds, bran, gluten meal, pea meal, alfalfa meal, fish scrap, meat meal and Hen-e-ta.	Corn meal, wheat middlings, wheat bran, gluten meal, alfalfa meal, fish scrap, meat meal, Hen-e-ta and stone grit.	3647
5.83	4.00	8.15	10.00	4 55	Blatchford's calf meal, locust bean meal, unpressed flaxseed, wheat flour, rice polish, blood flour, barley and malt sprouts meal, ground beans and peas, old process oil meal, cocoa shell meal, cocoanut meal, recleaned cottonseed meal, foenugreek, dried milk, anise and salt) also alfalfa, bone, corn and oat meals, wheat bran, wheat middlings, meat scraps, fish, capsicum and powdered limestone.	As certified, -----	4093
4.39	4.00	5.25	7.50	5 00	Blatchford's calf meal, locust bean meal, unpressed flaxseed, wheat flour, barley and malt sprouts meal, blood flour, ground beans and peas, rice polish, old process oil meal, cocoa shell meal, cocoanut meal, recleaned cottonseed meal, foenugreek, dried milk, anise and salt) also bone, corn and oat meals, wheat middlings, beef scraps, fish and powdered limestone.	As certified, -----	3764
5.00	5-7	7.28	7-9	3 60	Wheat feed, corn meal, ground oats, beef scrap, alfalfa meal, gluten oil meal, charcoal and salt.	As certified, -----	4486
4.92	3-5	6.09	6-9	3 50	Gluten, middlings, corn meal, bran, ground oats, oil meal, alfalfa, buckwheat feed and Hen-e-ta bone grits.	Corn gluten feed, wheat middlings, corn meal, wheat bran, ground oats, linseed oil meal, alfalfa and buckwheat feed.	4253
5.01	3.00	7.63	10.00	3 90	Wheat bran, wheat middlings, alfalfa meal, ground corn bran, corn feed meal, linseed oil meal, meat scraps and salt $\frac{1}{2}$ of 1%.	As certified, -----	3617

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3960	Globe Egg Mash, -----	Punxsutawney, Mahoning Valley Milling Co.	Per ct. 10.25	Per ct. 18.69	Per ct. 15.00
3807	Globe Egg Mash, -----	Harrisburg, Paxton Flour & Feed Co.	10.35	14.81	15.00
4018	Queen Poultry Mash, -----	Average, ----- DuBois, A. T. Sprinkle,--	10.23	17.35	----- 11.00
4243	DIEHL, OMKAKE & DIEHL, CHAMBERSBURG, PA. D. O. D. Mak-Em-Lay Dry Mash Feed.	Chambersburg, Diehl, Om-wake & Diehl.	9.98	20.94	20.00
3731	DULLS FLOUR & FEED STORE, EASTON, PA. Extra Straight Poultry Mash, -----	Easton, Dulls Flour & Feed Store.	9.16	17.63	8.00
3730	Poultry Mash, -----	Easton, Dulls Flour & Feed Store.	12.53	13.94	6-10
3736	THE EASTON FLOUR & FEED CO., EASTON, PA. Easton's Best Poultry Mash, -----	Easton, The Easton Flour & Feed Co.	10.52	17.31	17.00
4158	EMPORIUM MILLING CO., EM-PORIUM, PA. Liberty Standard Laying Mash, -----	Emporium, Emporium Milling Co.	10.03	20.56	18.00
4674	JOHN W. ESHELMAN, LANCASTER, PA. J. W. E.'s Laying Mash, -----	Lancaster, John W. Eshelman.	10.38	25.25	20.00

## FEEDING STUFFS COLLECTED IN 1918. -Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per et.	Per et.	\$			
4.38	3.00	6.93	10.00	3.50	Wheat bran, wheat middlings, alfalfa meal, ground corn bran, corn feed meal, linseed oil meal, meat scraps and salt $\frac{1}{2}$ of 1%.	As certified, -----	3960
4.51	3.00	6.85	10.00	4.15	Wheat bran, wheat middlings, alfalfa meal, ground corn bran, corn feed meal, linseed oil meal, meat scraps and salt $\frac{1}{2}$ of 1%.	As certified, -----	3807
4.64	-----	7.13	-----	3.85			
3.74	2.50	8.09	10.00	4.25	Wheat bran, wheat middlings, alfalfa meal, ground corn bran, corn feed meal, linseed oil meal, meat scraps and salt $\frac{1}{2}$ of 1%.	As certified, -----	4018
4.73	3.50	6.35	10.00	80.00	Ground wheat, corn, oats, alfalfa, cottonseed, flaxseed, carob beans, aniseed, foenugreek, beans and lentils, cocoa meal, oil meal, gluten and beef scrap.	As certified, -----	4243
4.46	3.00	7.83	5.00	3.60	Bran, middlings, corn meal, gluten, oil meal, alfalfa, fish or meat scrap.	Wheat bran, wheat middlings, corn meal, linseed oil meal, alfalfa and meat scrap.	3731
4.51	2.6	4.22	7.00	3.20	Bran, middlings and corn meal.	Wheat bran, wheat middlings, corn meal and small amount ground grain screenings.	3730
4.93	4.00	6.82	5.10	3.20	Bran, corn chop, middlings, ground oats, alfalfa meal, oil meal and less than $\frac{1}{2}$ of 1% salt.	As certified, -----	3736
5.58	2.50	4.92	6.00	3.75	Wheat bran, coarse meal, middlings, beef scraps, gluten meal and linseed meal.	Wheat bran, corn meal, wheat middlings, beef scraps, gluten meal and linseed oil meal.	4158
5.15	5.00	5.25	7.00	3.95	Twenty per cent. beef and fish scraps, gluten meal, cottonseed meal, oil cake meal, alfalfa meal, wheat bran, wheat middlings, corn meal, ground grain screenings, oat chop, hominy feed and barley chop.	As certified, -----	4674

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4091	FLORY MILLING CO., BANGOR, PA. Liberty Standard Laying Mash,-----	Bangor, Flory Milling Co.,	Per et. 9.80	Per et. 21.75	Per et. 15.00
4226	GLOBE ELEVATOR CO., BUF- FALO, N. Y. Blue Ribbon Laying Mash, -----	Canton, Canton Mercantile	9.78	21.94	20-22
3751	Blue Ribbon Laying Mash, -----	Doylestown, The Doylestown Poultry & Supply Co.	9.67	21.19	20-22
4571	Blue Ribbon Laying Mash, -----	Wilkes-Barre, Robbins Milling Co.	9.88	20.25	20-22
		Average, -----	9.77	21.13	-----
3993	A. B. GODSHALL, TELFORD, PA. Mash Feed, -----	Telford, A. B. Godshall,--	10.94	11.69	-----
3992	Special Poultry Mash, -----	Telford, A. B. Godshall,--	9.27	15.00	17.94
3922	A. C. GODSHALL & CO., INC., LANSDALE, PA. Dry Mash, -----	Lansdale, A. C. Godshall & Co., Inc.	10.53	18.38	12.00
4621	HALES & EDWARDS CO., CHI- CAGO, ILL. Red Comb Mash Feed (with Dried Buttermilk and Shell).	Charleroi, R. C. Mountser,	9.58	23.81	15.00
4923	Red Comb Mash Feed (with Dried Buttermilk and Shell).	DuBois, Timlin, Kelly Co.,	10.43	17.38	15.00
		Average, -----	10.00	20.60	-----

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$ 3.60	Corn feed meal, oil meal, gluten, bran, middlings, barley, oats beef scrap and fish scrap.	As certified, -----	4091
4.82	5.00	5.49	6.00				
4.99	3.00	8.20	9-10	3.50	Wheat bran, wheat middlings, red-dog flour corn meal, corn gluten feed, linseed oil meal, ground alfalfa, ground oats, meat meal and ground bone.	As certified, -----	4226
5.02	3.00	7.98	9-10	3.45	Wheat bran, wheat middlings, wheat flour, ground oats, corn meal, corn gluten meal, pea meal, ground alfalfa, linseed oil meal, meat meal and ground bone.	As certified, -----	3751
5.05	3.00	8.05	9-10	4.10	Wheat bran, wheat middlings, wheat flour, ground oats, corn meal, corn gluten meal, pea meal, ground alfalfa, linseed oil meal, meat meal, fish scrap and ground bone.	As certified, -----	4571
5.02	-----	8.07	-----	3.68			
5.89	-----	5.97	-----	2.80	Yellow corn bran, wheat middlings, cob chop and corn chop.	As certified, -----	3993
6.40	4.43	7.77	7.65	3.25	Yellow corn bran, middlings, oil meal, corn and oats chop, Lay or Bust and Pratt's Poultry Regulator.	Yellow corn bran, wheat middlings, linseed oil meal, corn and oats chop, wheat bran, barley, alfalfa, fish scrap, meat scrap, bone, buckwheat hulls, small amount ground screenings, salt, capsicum and foenugreek.	3992
5.21	2.00	7.23	9.00	3.20	Oats chop, middlings, ground corn, wheat bran, oil meal, meat meal and alfalfa meal.	As certified, -----	3922
5.38	4.00	6.97	10.00	4.00	Dried buttermilk, linseed oil meal, corn feed meal, meat scraps, wheat bran, wheat middlings, ground oats, alfalfa meal and not over 5% shell.	As certified, -----	4621
4.72	4.00	7.81	10.00	3.90	Dried buttermilk, linseed oil meal, corn feed meal, meat scraps, wheat bran, wheat middlings, ground oats, alfalfa meal and not over 5% shell.	As certified, -----	4023
5.05	-----	7.39	-----	3.95			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3690	DWIGHT E. HAMLIN, PITTSBURGH, PA. Hamlin's Quality Poultry Dry Mash,	Fairchance, A. M. Frederick, Jr.	Per ct. 8.55	Per ct. 27.94	Per ct. 17.00
3722	Hamlin's Quality Poultry Dry Mash,	McKeesport, Jeffreys Brothers.	8.49	26.83	17.00
		Average, -----	8.52	27.39	-----
3715	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Krause Mash Feed, -----	Braddock, Braddock Feed & Supply House.	11.96	18.06	18.00
3862	W. W. McCULLOUGH, WEST BRIDGEWATER, PA. *Chicken Mash, -----	West Bridgewater, W. W. McCullough.	7.38	21.10	15.00
4648	MARTIN & CO., ALTOONA, PA. Liberty Standard Laying Mash, -----	Altoona, Martin & Co.,---	9.74	23.75	18.00
4294	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. Poultry Mash, -----	Allentown, A. T. Stover Estate.	12.26	14.13	13.00
3927	THE PARK & POLLARD CO., BOSTON, MASS. Growing Feed, -----	Lansdale, A. C. Godshall & Co., Inc.	10.51	12.31	10.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$ 3.75	Fine ground alfalfa meal, wheat middlings, bran, old process oil meal, oat meal, ground cocoa bean shell, high grade meat meal, choice corn meal and $\frac{1}{2}$ of 1% salt.	As certified, -----	3630
5.95	3.50	6.85	12.00				
5.06	3.50	7.24	12.00	4.00	Fine ground alfalfa meal, wheat middlings, bran, old process oil meal, oat meal, ground cocoa bean shell, high grade meat meal, choice corn meal and $\frac{1}{2}$ of 1% salt.	As certified, -----	3722
5.51	-----	7.04	-----	3.88			
4.38	3.50	7.72	10.00	3.75	Wheat bran, wheat middlings, maizo red-dog flour, corn feed meal, alfalfa meal, meat scraps, corn germ meal and hominy feed.	As certified, -----	3715
6.50	3.00	11.33	15.00	3.00	Ground oats, bran, alfalfa, charcoal, meat tankage, oil meal, middlings, hominy meal, cottonseed meal, corn distillers' grains and solubles, corn gluten feed, corn meal siftings, oat middlings, oat shorts and salt.	As certified, -----	3862
5.58	4.00	5.05	6.00	4.30	Wheat bran, wheat middlings, ground oats, corn gluten feed, ground corn, linseed oil meal, fish scrap, meat meal and bone meal.	As certified, -----	4648
3.68	4.00	6.80	10.00	4.50	Ground peas, alfalfa meal, wheat bran, wheat middlings, hominy feed, buckwheat middlings and ground oats.	Alfalfa meal, wheat bran, wheat middlings, hominy feed, buckwheat middlings, ground oats and charcoal.	4294
2.42	1.50	3.88	8.00	4.05	Ground corn, wheat, barley, oats, meat, bone, alfalfa. Kaffir corn, wheat bran, with mill run of screenings, wheat middlings, buckwheat, beet pulp, calcium carbonate and salt.	Ground corn, wheat, barley, oats, meat, bone, alfalfa, Kaffir corn, wheat bran with mill run screenings, wheat middlings, buckwheat, calcium carbonate and salt.	3927

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4132	Growing Feed, -----	Scottdale, F. V. Perry, -----	Per ct. 11.08	Per ct. 13.94	Per ct. 10.00
		Average, -----	10.79	13.13	-----
3875	Lay or Bust Dry Mash, -----	Ellwood City, W. W. Davidson & Son.	9.54	20.50	18.00
3926	Lay or Bust Dry Mash, -----	Lansdale, A. C. Godshall & Co., Inc.	9.94	17.19	18.00
3710	Lay or Bust Dry Mash, -----	Braddock, The Irwin Muir Co.	9.64	17.38	18.00
4300	Lay or Bust Dry Mash, -----	Allentown, The George B. Shelly Estate.	11.67	16.63	18.00
3628	Lay or Bust Dry Mash, -----	Windber, Weaver & Berkey	9.06	17.50	18.00
		Average, -----	9.97	17.84	-----
4404	THE PHILADELPHIA SEED CO., INC., PHILADELPHIA, PA. N. A. Laying Mash, -----	Philadelphia, The Philadelphia Seed Co., Inc.	9.50	19.38	15.00
4701	N. A. Laying Mash, -----	Philadelphia, The Philadelphia Seed Co., Inc.	8.17	22.38	17.00
		Average, -----	8.83	20.88	-----

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
3.59	1.50	5.75	8.00	4 50	Ground: Corn, wheat, barley, oats, Kaffir corn, wheat bran with screenings, wheat middlings, buckwheat, beet pulp, calcium carbonate and salt.	Ground: Corn, wheat, barley, oats, Kaffir corn, wheat bran with screenings, wheat middlings, meat meal, calcium carbonate and salt.	4132
3.01	-----	4.81	-----	4 29	Ground: Corn, wheat, bran, corn wheat middlings, corn wheat, oats, barley, Kaffir corn, buckwheat, alfalfa pulp, calcium alfalfa, fish, meat, bone, beet pulp, calcium carbonate and salt.	Ground: Corn, wheat bran, corn wheat middlings, corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, corn gluten feed, calcium carbonate and salt.	3875
4.86	1.50	8.67	12.00	4 75	Ground: Corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, beet pulp, wheat bran with mill run of screenings, wheat middlings, calcium carbonate and salt.	Ground: Corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, wheat bran with mill run screenings, wheat middlings, calcium carbonate and salt.	3928
4.68	1.50	8.56	12.00	3 85	Ground: Corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, beet pulp, wheat bran with mill run of screenings, wheat middlings, calcium carbonate and salt.	As certified, -----	3710
2.75	1.50	8.60	12.00	4 00	Ground: Commercial wheat bran, commercial wheat middlings, oats, corn, wheat, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, beet pulp, calcium carbonate and salt.	Ground: Corn, wheat oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, wheat bran with mill run screenings, wheat middlings, calcium carbonate and salt.	4300
3.67	1.50	6.15	12.00	4 25	Ground: Corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, beet pulp, wheat bran with mill run of screenings, wheat middlings, calcium carbonate and salt.	Ground: Wheat bran and wheat middlings with mill run screenings, corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa meal, fish, meat, bone, beet pulp, calcium carbonate and salt and trace of broken glass.	3628
4.17	-----	8.09	-----	4 13	Fish scrap, beef scrap, bran, corn meal, gluten, ground oats, wheat middlings, low grade flour and bone meal.	Fish scrap, beef scrap, wheat bran, corn meal, corn gluten feed, barley, ground oats, wheat middlings, low grade flour and bone meal.	4404
5.05	5.00	5.75	6.00	3 80	Fish scrap, beef scrap, bran, corn meal, gluten, ground oats, wheat middlings, low grade flour and bone meal.	As certified, -----	4701
5.85	5.00	7.20	6.00	3.50	Fish scrap, beef scrap, bran, corn meal, gluten, ground oats, wheat middlings, low grade flour and bone meal.		
5.45	-----	6.47	-----	3 65			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4702	Purgrain Laying Mash Feed, -----	Philadelphia, The Philadelphia Seed Co., Inc.	Per ct. 9.18	Per ct. 23.75	Per ct. 20-22
4059	PRAIRIE STATE MILLING CO., CHICAGO, ILL. Prairie State Poultry Mash, -----	Carnegie, Richey & McFarland.	11.00	14.00	17.00
3702	J. E. PRITTS, SCOTTDALE, PA. *Pritt's Dry Mash, -----	Scottdale, J. E. Pritts, --	11.79	25.38	22-26
4114	PURITY OATS CO., DAVENPORT, IOWA. Tom Boy Poultry Mash, -----	Stroudsburg, Frank Le-Bar.	8.48	15.50	15.00
4136	THE QUAKER OATS CO., CHI- CAGO, ILL. *Ful-O-Pep Dry Mash, -----	Bangor, S. E. Merkel & Co.	8.65	20.13	20.00
4417	*Ful-O Pep Dry Mash, -----	Oil City, New Model Milling Co.	9.13	21.25	20.00
4222	*Ful-O-Pep Dry Mash, -----	Canton, Preston Brothers,	10.03	20.25	20.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et.	Per et.	Per et.	Per et.	\$ 3.60	Gluten, bran, middlings, alfalfa, corn meal and beef scrap.	Corn gluten feed, wheat bran, wheat middlings, alfalfa meal, corn meal, beef scrap, barley hulls and seed screenings containing small amount whole weed seeds.	4702
6.65	5-6	6.60	7-8				
3.06	3.50	5.78	10.00	4 00	Corn feed meal, wheat meal, Kaffir meal, alfalfa meal, linseed meal, wheat bran, wheat middlings, meat scraps and oyster shell.	As certified, -----	4059
4.66	5-7	7.08	9.00	4 15	Beef scraps, alfalfa meal, cottonseed meal, corn, wheat, oats, charcoal, wheat bran, wheat middlings and molasses.	As certified, -----	3702
5.70	4.00	5.85	10.00	4 15	Ground: Meat, wheat, oat meal, wheat middlings, milo maize, huckwheat, corn meal, barley, oats, middlings, millet, gluten feed, Kaffir corn, alfalfa meal, hominy feed, wheat bran, oat germ meal, rock phosphate, salt, calcium carbonate and charcoal.	Ground: Meat, wheat, oat meal, wheat middlings, milo maize, corn meal, barley, oat middlings, millet, corn gluten feed, Kaffir corn, alfalfa meal, hominy feed, wheat bran, oat germ meal, rock phosphate, calcium carbonate and salt.	4114
5.30	4.00	6.27	10.00	4 00	Meat scraps, fish meal, oat meal, alfalfa meal, wheat bran with ground screenings not exceeding mill run, bone meal, cottonseed meal, yellow hominy feed, hominy feed, corn gluten feed and ground grain screenings.	As certified, -----	4138
6.00	4.00	8.37	10.00	4 00	Meat scraps, fish meal, oat meal, alfalfa meal, wheat bran with ground screenings not exceeding mill run, bone meal, cottonseed meal, yellow hominy feed, corn gluten feed and ground grain screenings.	As certified, -----	4417
5.29	4.00	7.50	10.00	3 95	Meat scraps, fish meal, oat meal, alfalfa meal, wheat bran with ground screenings not exceeding mill run, bone meal, cottonseed meal, yellow hominy feed, hominy feed, corn gluten feed, and ground grain screenings.	Meat seraps, fish meal, oat meal, alfalfa meal, wheat bran with mill run ground screenings, bone meal, cottonseed meal, yellow hominy feed, corn gluten feed, ground grain screenings and small amount small whole weed seeds.	4222

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4067	*Ful-O-Pep Dry Mash, -----	Farrell, J. B. Roux, -----	Per et. 10.80	Per et. 20.44	Per et. 20.00
4245	*Ful-O-Pep Dry Mash, -----	Chambersburg, J. H. Smith & Sons.	9.58	20.19	20.00
4137	*Ful-O-Pep Growing Mash, -----	Average, ----- Bangor, S. E. Merkel & Co.	9.63 9.98	20.45 17.44	----- 15.50
4474	RALSTON PURINA CO., ST. LOUIS, MO. Purina Chicken Chowder with Char- coal not over 1%.	Bellefonte, G. R. Danen- hower & Son.	10.58	21.06	19.00
4357	Purina Chicken Chowder with Char- coal not over 1%.	Kennett Square, C. G. Gawthrop Co.	11.09	18.38	19.00
4440	Purina Chicken Chowder with Char- coal not over 1%.	Reading, The Obold Hard- ware Co.	9.30	20.25	19.00
4297	Purina Chicken Chowder with Char- coal not over 1%.	Allentown, A. T. Stover Estate.	12.00	20.69	18.00
4277	SMITH BROTHERS, BRADFORD, PA. Egg Mash, -----	Average, ----- Bradford, Smith Brothers,	10.74 11.35	20.10 19.06	----- 15.00

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or ewt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per et.	Per et.	Per et.	Per et.	\$			
4.92	4.00	7.10	10.00	3 75	Meat scraps, oat meal, alfalfa meal, wheat bran with ground screenings not exceeding mill run, bone meal, cottonseed meal, yellow hominy feed, corn feed meal by-product from manufacture of hominy and corn meal by degerminator process with partial extraction of oil, corn gluten feed and ground grain screenings.	Meat scraps, oat meal, alfalfa meal, wheat bran with mill run ground screenings, bone meal, cottonseed meal, hominy feed and small amount small whole weed seeds.	4067
5.80	4.00	5.77	10.00	4 50	Meat scraps, fish meal, oat meal, alfalfa meal, wheat bran with ground screenings not exceeding mill run, bone meal, cottonseed meal, yellow hominy feed, corn gluten feed and ground grain screenings.	As certified, -----	4245
5.46	-----	7.00	-----	4 04			
5.70	5.50	5.98	10.00	4 00	Oat meal, wheat bran, alfalfa meal, bone meal, ground grain screenings and meat scraps.	As certified, -----	4137
3.93	4.00	7.02	9.00	3 25	Wheat middlings, wheat bran, corn meal, alfalfa meal, linseed meal, granulated meat, charcoal and not over 1% salt.	As certified, -----	4474
4.42	4.00	8.15	9.00	4 00	Wheat middlings, wheat bran, corn meal, alfalfa meal, linseed meal, granulated meat, charcoal and not over 1% salt.	As certified, -----	4357
5.25	4.00	7.87	9.00	4 25	Wheat middlings, wheat bran, corn meal, alfalfa meal, linseed meal, granulated meat, charcoal and not over 1% salt.	As certified, -----	4440
3.93	4.00	8.20	9.00	4 50	Wheat middlings, wheat bran, corn meal, alfalfa meal, linseed meal, granulated meat, charcoal and not over 1% salt.	As certified, -----	4297
4.38	-----	7.81	-----	4 00			
4.25	4.00	5.27	12.00	\$ 75	Corn meal, brown middlings, red-dog flour, alfalfa meal, meat scraps, oil meal, gluten feed, bran and charcoal.	As certified, -----	4277

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
4400	J. C. SNAVELY & SONS, LANDISVILLE, PA. Snavely's Poultry Mash, -----	Landisville, J. C. Snavely & Sons.	Per ct. 9.55	Per ct. 22.31	Per ct. 24.08
3980	ESTATE OF GEORGE S. SNYDER, HATFIELD, PA. *Dry Mash, -----	Hatfield, Estate of George S. Snyder.	8.82	20.19	-----
3728	SPRATT'S PATENT (AMERICA), LTD., NEWARK, N. J. Spratt's Utility Mash Food, -----	Easton, Dull's Flour & Feed Store.	8.46	22.06	20.00
4209	THE SUGARINE CO., PEORIA, ILL. Sugarine Poultry Mash, -----	Westfield, H. Z. Pride & Son.	9.09	20.81	18.00
4291	TIOGA MILL & ELEVATOR CO., WAVERLY, N. Y. Ti-O-Ga Laying Mash, -----	Ulster, O. F. Potter, ---	10.87	21.69	16.00
4108	J. M. WYCKOFF, EAST STROUDSBURG, PA. Poultry Mash, -----	East Stroudsburg, J. M. Wyckoff.	9.60	20.63	14.00
ANIMAL BY-PRODUCTS.					
4254	THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y. Protx Pure Ground Meat Scraps, ---	Towanda, Dayton Milling Co.	6.76	55.88	55.00
4196	Protx Pure Ground Meat Scraps, ---	Knoxville, Deerfield Milling Co.	7.42	57.06	55.00
3317	Protx Pure Ground Meat Scraps, ---	Quakertown, S. S. Detweiler.	6.56	53.13	55.00
3896	Protx Pure Ground Meat Scraps, ---	Mechanicsburg, M. C. Dietz & Son.	6.68	53.94	55.00
3627	Protx Pure Ground Meat Scraps, ---	Windber, Weaver & Berkeley.	7.07	51.56	55.00
3667	Protx Pure Ground Meat Scraps, ---	Lebanon, A. M. Weltmer's Sons.	6.45	54.69	55.00
		Average, -----	6.82	54.38	-----

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$			
5.28	6.79	6.30	7.23	3.50	Corn ebop, oat chop, gluten, cottonseed meal, bran, white middlings, alfalfa meal, beef scrap, fish scrap, linseed meal and fine shells.	As certified, -----	4400
6.06	-----	10.27	-----	3.00	Alfalfa, charcoal, wheat middlings, wheat bran, corn bran, corn meal, cake meal, oats chop, protex meat scraps, Pratt's Poultry Regulator and gluten feed.	Alfalfa meal, charcoal, wheat middlings, wheat bran, corn bran, corn meal, linseed oil cake meal, oats chop, meat scraps, corn gluten feed, foenugreek and capsicum.	3980
5.38	4.50	8.37	7.00	3.80	Wheat bran, wheat, corn meal, alfalfa meal, ground meat, ground rice, ground Kaffir corn, ground buckwheat, ground bone, ground charcoal, ground peas, ground fish and vegetable meal.	Wheat bran, wheat, corn meal, alfalfa meal, ground meat, ground rice, ground Kaffir corn, ground buckwheat, ground bone, ground charcoal, ground peas, ground fish, vegetable meal and popped corn.	3728
5.41	3.50	7.70	12.00	4.00	Alfalfa meal, corn feed meal, meat scraps, corn distillers' dried grains, wheat bran, linseed meal, palm kernel meal and calcium carbonate.	As certified, -----	4209
4.72	2.50	5.45	6.00	3.50	Wheat middlings, old process linseed oil meal, meat and bone scrap, corn gluten meal, hominy feed, wheat bran, corn feed meal, Kaffir corn meal, oats, barley, buckwheat and phosphate of lime.	As certified, -----	4291
5.14	3.00	7.66	10.00	3.25	Corn meal, wheat bran and midds, alfalfa meal, bone scrap, oil meal, ground oats and gluten.	As certified, -----	4108
13.15	10.00	1.67	-----	5.70	-----	Meat scrap, -----	4254
12.22	10.00	0.84	-----	6.00	-----	Meat scrap, -----	4196
15.66	10.00	1.20	-----	5.75	-----	Meat scrap, -----	3917
13.74	10.00	1.27	-----	5.75	-----	Meat scrap, -----	3896
14.37	10.00	1.16	-----	5.50	-----	Meat scrap, -----	3627
15.57	10.00	1.43	-----	5.50	-----	Meat scrap, -----	3667
14.12	-----	1.26	-----	5.70	-----		

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
3823	THE ANIMAL PRODUCTS CO., PHILADELPHIA, PA. Apeo Poultry Meat, -----	Penbrook, O. S. Ebersole,	Per et.	Per et.	Per et.
4637	Apeo Poultry Meat, -----	New Oxford, J. H. Duttera.	6.48	42.38	40-45
4433	Apeo Poultry Meat, -----	York, H. H. Smyser, -----	6.61	42.38	40.00
		Average, -----	6.21	42.13	40.00
			6.43	42.30	-----
3789	THE BERG CO., PHILADELPHIA, PA. Berg's 3 Medal Poultry Meat, -----	Butler, H. J. Klinger & Co.	6.29	42.50	40-55
3948	Berg's 3 Metal Poultry Meat, -----	West Point, L. W. Mattern.	7.04	38.88	40-55
		Average, -----	6.66	40.69	-----
3949	*Digester Tankage, -----	West Point, L. W. Mattern.	7.53	34.25	-----
4391	CONSOLIDATED DRESSED BEEF CO., PHILADELPHIA, PA. Consolidated Beef and Bone Scraps, -----	Coatesville, Handwork Brothers.	6.31	44.88	45-50
3696	DARLING & CO., CHICAGO, ILL. Darling's 60% Digester Tankage, -----	Scottdale, J. E. Pritts, -----	13.31	62.62	60.00
3867	Darling's High Protein Meat Scraps for Poultry.	Beaver, A. F. Grine, -----	9.43	52.81	55.00
3697	Darling's High Protein Meat Seraps for Poultry.	Scottdale, J. E. Pritts, -----	10.18	59.13	55.00
		Average, -----	9.80	55.97	-----
4647	JACOB DOLD PACKING CO., BUFFALO, N. Y. Dold Quality Digester Tankage, -----	York, Anderson Brothers & Co.	10.82	68.38	60.00
4039	Dold Quality Digester Tankage, -----	Lock Haven, E. E. Wentz, -----	8.89	65.50	50.00
		Average, -----	9.85	66.94	-----
4189	Dold Quality Meat and Bone Scrap, JOHN W. ESHELMAN, LANCASTER, PA.	Wellsboro, George O. Brooks.	7.37	47.25	45-50
4668	J. W. E.'s Digester Tankage, -----	Lancaster, John W. Eshelman.	9.10	67.88	60.00
4677	J. W. E.'s Fish Scrap, -----	Lancaster, John W. Eshelman.	6.70	41.00	40.00
4671	J. W. E.'s Meat Scrap, -----	Lancaster, John W. Eshelman.	8.08	51.13	50.00
4237	THE FRITZ CO., PHILADELPHIA, PA. Quaker City Special Brand Meat and Bone Scraps.	Chambersburg, Diehl, Omwake & Diehl.	5.88	37.88	40.00
4536	Quaker City Special Brand Meat and Bone Scraps.	Lewisburg, E. C. Noll, -----	7.15	41.75	40.00
4219	Quaker City Special Brand Meat and Bone Scraps.	Canton, Preston Brothers, -----	5.85	42.50	40.00
3675	Quaker City Special Brand Meat and Bone Scraps.	Iebanon, E. Striekler's Sons.	6.06	55.37	40.00
4493	Quaker City Special Brand Meat and Bone Scraps.	Meshoppen, C. B. Tyler, -----	6.52	41.13	40.00
		Average, -----	6.29	43.73	-----
3634	PHILADELPHIA SEED CO., INC., PHILADELPHIA, PA. *S. & S. Poultry Meat, -----	Huntingdon, L. S. Goodman & Sons.	8.31	38.38	40-55

\*Not registered.

## FEEDING STUFFS COLLECTED IN 1918.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.	\$	Meat and bone scrap,--	As certified, -----	3823
13.42	11-13	1.17	1-3	5 50	-----	Meat and bone scrap,--	4433
12.60	10.00	0.40	2.00	5 00	-----	As certified, -----	4637
13.59	11.00	1.81	3.00	5 25	Meat and bone scrap,--	-----	
13.17	-----	0.96	-----	5 25	-----	-----	
12.69	11-15	2.03	1-3	5 00	-----	Meat and bone scrap,--	3789
13.44	11-15	2.05	1-3	4 75	-----	Meat and bone scrap and trace of glass particles.	3948
13.07	-----	2.04	-----	4 88	-----	-----	
15.41	-----	4.87	-----	4 50	-----	Digester tankage and small amount of bits of stones.	3949
12.60	12.00	1.07	2.00	5 60	-----	Beef and bone scrap, --	4391
0.68	0.50	3.55	3.00	4 50	Meat products, -----	As certified, -----	3696
8.47	0.50	2.14	3.00	5 25	Meat products, -----	As certified, -----	3867
7.43	0.50	2.63	3.00	4 50	Meat products, -----	As certified, -----	3697
7.95	-----	2.38	-----	4 88	-----	-----	
7.15	8.00	2.25	5.00	116 00	-----	Digester tankage, -----	4647
6.30	9.00	2.06	5.00	5 75	-----	Digester tankage, -----	4039
6.73	-----	2.15	-----	115 50	-----	-----	
8.28	8.00	0.72	5.00	5 25	Manufactured from scraps of meat cooked and dried.	Meat and bone scrap,--	4180
8.15	5.00	2.02	5.00	5 65	-----	Digester tankage, -----	4668
4.95	2.00	1.00	1.00	5 20	-----	Fish scrap, -----	4677
11.80	8.00	1.07	3.00	5 55	-----	Meat scrap, -----	4671
14.90	10.00	1.73	2.00	5 75	Meat and bone scrap,--	As certified, -----	4237
15.03	10.00	1.82	2.00	5 25	-----	Meat and bone scrap,--	4536
15.19	10.00	0.66	2.00	5 25	Meat and bone scrap,--	As certified, -----	4219
11.48	10.00	2.81	2.00	5 00	-----	Meat and bone scrap,--	3675
11.75	10.00	0.35	2.00	5 10	Meat and bone scrap,--	As certified, -----	4493
13.67	-----	1.47	-----	5 27	-----	-----	
13.07	11-15	2.38	1-3	5 75	-----	Meat and bone scrap,--	3634

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Guaranteed.	Found.
3961	J. D. RAMSEY, PITTSBURGH, PA. Meat Meal Tankage, -----	Punxsutawney, Mahoning Valley Milling Co.	Per ct. 3.76	Per ct. 33.88	Per ct. 35.00
3832	ROBERT A. REICHARD, ALLEN- TOWN, PA. Reichard's High Grade Beef Scrap, --	Hummelstown, Jos. Burk- holder.	6.79	67.28	55.00
3626	Reichard's High Grade Beef Scrap, --	Windber, Weaver & Ber- key.	7.24	53.25	55.00
4153	RUSSIA CEMENT CO., GLOUCES- TER, MASS. Chic-Chuk (Fish Meal), -----	Average, ----- Altoona, H. H. Langdon,	7.01 6.19	60.27 51.75	----- 50.00
4650	Chic-Chuk (Fish Meal), -----	Altoona, Martin & Co., --	7.22	50.61	50.00
4643	JOHN T. STANLEY CO., INC., NEW YORK, N. Y. Stanley's High Protein Meat Scraps,	Average, ----- York, Anderson Bros. & Co.	6.70 6.34	51.18 44.75	----- 45.00
4274	Stanley's High Protein Meat Scraps,	Ulster, H. O. Ayer, -----	8.21	44.06	45.00
3842	SWIFT & COMPANY, CHICAGO, ILL. Swift's Beef Scraps, -----	Average, ----- Kittanning, J. A. Gault Co.	7.27 6.55	44.41 50.06	----- 50.00
4239	Swift's Digester Tankage, -----	Chambersburg, Diehl, Om- wake & Diehl.	9.31	62.25	60.00
4667	Swift's Digester Tankage, -----	Laneaster, John W. Esh- elman.	20.08	72.69	60.00
4561	Swift's Digester Tankage, -----	Homer, Thomas K. George, Average, -----	9.23 12.87	62.81 65.92	60.00 -----
4481	Swift's Laymore Meat Scraps, -----	Tunkhannock, Brown & Fassett.	7.43	58.18	45.00
4238	Swift's Laymore Meat Scraps, -----	Chambersburg, Diehl, Om- wake & Diehl.	6.29	47.25	45.00
4265	SYRACUSE RENDERING CO., SYRACUSE, N. Y. Syracuse Poultry Food, -----	Average, ----- Towanda, F. H. Hager- man.	6.86 7.30	52.69 41.06	----- 40-50
3818	THE VAN IDERSTINE CO., LONG ISLAND CITY, N. Y. Darling's High Protein Meat Scraps,	Harrisburg, Hoffer & Gar- man.	4.78	58.00	55.00
4654	Darling's High Protein Meat Scraps,	Juniata, R. I. Remaley,--	5.85	55.61	55.00
	CONDIMENTAL STOCK AND POUL- TRY FOODS.	Average, -----	5.31	56.81	-----
3957	COLONIAL FOOD DIGESTER CO., MONTROSE, PA. Colonial Food Digester, -----	New Holland, George W. Bair,	9.07	24.88	25.75

## FEEDING STUFFS COLLECTED IN 1918.—Concluded.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 11.63	Per ct. 14.00	Per ct. 2.72	Per ct. -----	\$ 3 50	-----	Meat meal tankage, -----	3961
17.47	10.00	0.64	2.00	5 50	-----	Beef scrap, -----	3832
17.15	10.00	0.80	2.00	5 50	-----	Beef scrap, -----	3626
17.31	-----	0.72	-----	5 50	-----	-----	-----
1.71	2.00	2.06	1.00	4 50	Pure clean, sweet fish meal prepared exclusively from wholesome food fish as cod, haddock and pollock.	As certified, -----	4153
2.05	2.00	0.62	1.00	4 75	Pure clean, sweet fish meal prepared exclusively from wholesome food fish as cod, haddock and pollock.	As certified, -----	4650
1.88	-----	1.34	-----	4 63	-----	-----	-----
12.58	10.00	1.15	-----	5 20	-----	Meat scrap, -----	4043
12.72	10.00	1.10	-----	5 00	-----	Meat scrap, -----	4274
12.65	-----	1.12	-----	5 10	-----	-----	-----
9.58	8.00	1.49	3.00	5 50	-----	Beef scrap, -----	3842
5.34	5.00	1.45	3.00	110 00	-----	Digester tankage, -----	4239
1.20	3.00	0.67	6.00	5 65	-----	Digester tankage, -----	4667
5.73	6.00	2.40	3.00	6 50	-----	Digester tankage, -----	4561
4.09	-----	1.50	-----	117 67	-----	-----	-----
12.37	8.00	1.98	3.00	6 00	-----	Meat scrap, -----	4481
14.99	6.00	1.61	3.00	5 75	-----	Meat scrap, -----	4238
3.68	-----	1.79	-----	5 88	-----	-----	-----
13.24	8-12	1.35	-----	5 00	Prepared from cooked meat and bone scraps (animal products).	As certified, -----	4265
10.74	5.00	1.56	8.00	5 50	-----	Meat scrap, -----	3818
11.73	5.00	1.15	3.00	7 00	-----	Meat scrap, -----	4654
11.24	-----	1.35	-----	6 25	-----	-----	-----
4.16	4.50	9.76	12.00	25 00	Linseed oil meal, charcoal, foenugreek, sulphur, sodium chloride, potassium bi-tartarate and sulphur of magnesia.	As certified, -----	3957

